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BOARD OF HEALTH OF THE STATE OF NEW JERSEY.

The Secretary of State, The Attorney-General, The State Geologist,	}	<i>Members ex-officio</i>
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HENRY B. RUE, M. D.....	Hoboken.
HENRY MITCHELL, M. D.....	Asbury Park.
WILLIAM H. MURRAY, M. D.....	Plainfield.
GEORGE P. OLCOTT, C. E.....	East Orange.
LABAN DENNIS. M. D.....	Newark.
CYRUS F. BRACKETT, M. D.....	Princeton.
HENRY W. ELMER, M. D.....	Bridgeton.

<i>President</i>	CYRUS F. BRACKETT.
<i>Secretary</i>	HENRY MITCHELL.

THE OFFICE OF THE BOARD IS IN THE STATE HOUSE, TRENTON.

(iii)

TRENTON, N. J., October 31st, 1904.

To His Excellency, Franklin Murphy, Governor:

SIR—I have the honor to herewith transmit the twenty-eighth annual report of the Board of Health of the State of New Jersey, and the report of the Bureau of Vital Statistics for the year ending December 31st, 1903.

Very respectfully,

HENRY MITCHELL,
Secretary.

General Report.

To His Excellency, Franklin Murphy, Governor:

SIR—In conformity with the provisions of chapter 68 of the laws of 1887, the Board of Health of the State of New Jersey herewith submits its annual report.

LEGISLATION RELATING TO THE PUBLIC HEALTH.

Reference to the annual volumes of the public laws shows that since the establishment of State and local departments of public health (1880) there has been an increase, from year to year, in the number of Legislative Bills having reference to the promotion of health and the prevention of the spread of disease. Numerous statutes have been enacted for the improvement of preexisting laws, and many entirely new and advanced measures have been added for the improvement of the administrative functions of both the State and local boards of health. The act to improve the local sanitary inspection service, approved April 8, 1903, and which becomes operative January 1, 1905, promises to place, in the course of a few years, the supervision of sanitary precautions in the hands of men who have been trained for the duties of their calling. When this desirable change in the efficiency of local inspectors shall have been fully consummated, New Jersey will take a leading position in sanitary administration, and the innovation will doubtless prove to be warmly welcomed in every municipality and township.

VITAL STATISTICS.

The classification of the causes of death under the international system, which was adopted with the beginning of the year 1901, has greatly increased the value of the mortality records,

and the complete tabulation by districts having 5,000 or more inhabitants, has made the figures far more useful than they were under the system previously employed in the preparation of records of deaths. The change in the termination of the statistical year from June 30 to December 31, was made for the purpose of rendering the records of New Jersey comparable with those of other States and countries. This change is also advantageous because it affords more time in which to receive and tabulate delayed returns, but it necessarily delays the publication of the statistical tables. Under the new arrangement the report of the Bureau of Vital Statistics for each calendar year is filed October 31 of the year following.

DECREASE IN MORTALITY.

Every disease in any way preventable by hygienic measures has shown decrease in frequency and fatality in New Jersey, but there are still many unnecessary deaths, especially from tuberculosis, diphtheria and diarrhoeal diseases of children, notwithstanding that it is in these groups that the greatest improvement in mortality has already been secured. Education has been the potential factor in reaching the results already attained, and further progress in lowering the death-rate depend upon the extent to which the principals of hygiene can be disseminated. Much reliance is placed by this board upon the superior service which we believe will be rendered by the higher class of local sanitary officers created by the provisions of chapter 215 of the laws of 1903, for under the intelligent guidance of well informed officials whole communities can be led to see the dangers which lurk in polluted wells, contaminated milk, open privies, dust, mosquitoes and flies, and action for the abatement of nuisances of this character follows, soon or later, if the parties interested are fully convinced of the injurious nature of these evils. We may, therefore, look forward with confidence to a further reduction in the mortality due to diseases already recognized as preventable, and doubtless others will from time to time be added to the list.

PUBLIC WATER SUPPLIES.

The enforcement of the law to prevent the pollution of public water supplies has been unremittingly continued, and this service we believe is among the most useful departments of the work performed by this board. The details of the inspections made, notices sent and sources of pollution removed will be found in the body of this report.

FOOD AND DRUGS.

The enforcement of the act to prevent the sale of adulterated food and drugs has been continued and a decided improvement has been observed in the proportion of the samples found to be below the standard fixed by law. The number of samples purchased by the inspectors, and forwarded to the laboratory for examination, has been larger than during any previous year, and the analytical work performed in the State laboratory of hygiene has been prompt and satisfactory.

BACTERIOLOGICAL DIAGNOSIS.

Laboratory examinations for the detection of diphtheria, typhoid fever, tuberculosis, glanders, anthrax, malaria and certain other affections, have been continued daily without interruption. This service has become essential to the early and positive recognition of those diseases which are produced by bacterial causes, and physicians throughout the State rely upon it for the prevention of errors in diagnosis when dealing with the dangerous communicable diseases. In this connection attention is called to the advisability of producing attenuated anthrax virus for the immunization of cattle in the districts bordering the Delaware river in Salem and Cumberland Counties. Outbreaks of anthrax have in recent years appeared with increasing frequency in those portions of the State referred to, and the only safe preventive is to regularly immunize the cattle of the locality each spring, before they are turned out to graze upon the lands along the river and its tributaries. The experience which the board has had in the use of the virus shows

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that the efficiency of the commercial article cannot be relied upon, and therefore it should be prepared and distributed directly under the supervision of the director of the State laboratory. As the manufacture of this virus is attended with considerable risk to animals and human beings in the vicinity of the plant where the work is conducted, we recommend that a suitable building in a proper location be provided for this purpose.

GLANDERS.

We urgently recommend that a sufficient appropriation be made by the legislature to enable the board to prevent the introduction of glandered horses into the State, and to break up the business of importing sick horses from New York into New Jersey for the purpose of selling them.

MEETINGS.

The meetings of the board, both stated and special, are uniformly well attended, and the records of the past ten years show that a quorum has been present at every meeting which has been called. During the year ending October 31, 1904, six meetings were held. Stated meetings are held quarterly, and special meetings are called when business demanding immediate attention is presented.

Respectfully submitted,

HENRY B. RUE,
WILLIAM H. MURRAY,
GEORGE P. OLCOTT,

CYRUS F. BRACKETT,
LABAN DENNIS,
HENRY W. ELMER,
HENRY MITCHELL.



Secretary's Report.

To the Board of Health of the State of New Jersey:





GENTLEMEN:—The close of the year 1903 marks the termination of the fifth quinquennial since the establishment of the bureau of vital statistics in New Jersey, and the statements of marriages, births and deaths herewith presented are grouped into twenty-five-year tables for convenience in studying the vital statistics of the State. The tabulations for 1879-1900 were made for the statistical year ending June 30, but commencing January 1, 1901, the statistical year ends December 31st.

Births.—The number of births recorded in New Jersey during the year ending December 31, 1903, was 37,242. The following table shows the number of certificates of births received and recorded during the past twenty-five years:

REPORT OF THE BOARD OF HEALTH.

TABLE 1.—SHOWING  NUMBER OF BIRTHS REPORTED, NUMBER OF MARRIAGES  OF DEATHS IN NEW JERSEY, WITH BIRTH-RATES, MARRIAGE RATES AND DEATH RATES FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

YEAR.	BIRTHS.		MARRIAGES		DEATHS.		
	Population.*	Number of births reported.	Birth-rate per 1,000 population.	Number of marriages.	Persons married per 1,000 population.	Number of deaths.	Death-rate per 1,000 population.
1879	1,020,584	23,116	22.65	7,096	13.91	20,440	20.03
1880	1,130,892	23,680	20.94	7,963	14.08	18,967	16.77
1881	1,160,275	23,484	20.24	8,109	13.98	20,812	17.94
1882	1,189,658	23,108	19.42	8,837	14.86	25,959	21.82
1883	1,209,048	24,430	20.21	9,166	15.16	23,310	19.23
1884	1,248,224	25,263	20.20	8,968	14.37	21,716	17.40
1885	1,278,033	24,077	18.84	8,989	14.07	23,807	18.63
1886	1,310,431	25,497	19.46	12,351	18.85	22,734	17.35
1887	1,342,829	27,340	20.36	15,416	22.96	24,331	18.12
1888	1,375,227	28,074	20.41	16,025	23.31	27,173	19.76
1889	1,407,625	29,099	20.67	15,726	22.34	26,543	18.86
1890	1,441,017	30,103	20.89	15,564	21.60	28,530	19.80
1891	1,478,784	28,882	19.53	15,305	20.70	28,840	19.50
1892	1,511,653	30,627	20.26	16,082	21.28	32,685	21.62
1893	1,538,799	32,285	20.98	17,178	22.33	30,596	19.88
1894	1,578,373	33,662	21.33	16,245	20.58	30,004	19.09
1895	1,672,942	31,742	18.97	15,873	18.98	30,634	18.31
1896	1,718,543	31,207	18.16	18,370	21.38	30,767	17.90
1897	1,764,144	31,595	17.91	18,171	20.60	29,822	16.90
1898	1,810,008	32,515	17.96	13,213	14.59	27,337	15.11
1899	1,855,872	29,419	15.84	13,336	14.37	30,999	16.70
1900	1,883,669	32,270	17.13	14,611	15.51	31,474	16.62
1901	1,925,781	34,812	18.08	16,539	17.18	31,739	16.48
1902	1,967,893	35,116	17.84	18,150	18.45	31,319	15.91
1903	2,016,797	37,242	18.47	19,512	19.35	31,820	15.87

and  of  as complete as are those for marriages
tion  not represent with accuracy the rela-
N  of marriages reported during the years 1886-
1897 was authority contained in the laws for the per-
formance of the in the case of non-residents, and the
marked decrease nu marriages which occurred in 1898 was
directly consequent upon the enactment of the law requiring a license in cases
where both parties are non-residents of the State.

The act requiring that certificates shall be prepared and filed showing certain facts relating to every birth, marriage and death has proved to be well adapted to the purpose in view, except in the case of births. The section of the law which requires reports of births is violated in every district of the State and the records of births are therefore incomplete and misleading. This failure to obey the laws is not altogether due to wilful disregard of its provisions, for many children are born without the presence of a professional attendant, and in many instances the parents are ignorant of the requirements of the law. These conditions are not peculiar to New Jersey, but are met with in all of the registration States and cities in the United States. Suggestions for the improvement of the present method for obtaining certificates of births have been numerous, and almost all of these proposals have involved additional legislation, some of them designed to increase the penalties for failure to report births, others increasing the fees to be paid for the preparation of the certificates by physicians, midwives, parents and householders. The difficulty of enforcing the law has been mainly due to the indifference, negligence or lack of information on the part of local registrars, for it has been observed that in localities where the local officer is keenly attentive to his duties few births escape his knowledge, and the records are very nearly accurate. The most serious obstacle therefore in the way of the collection of more complete reports of births appears to be the incompetency of the local officials who are entrusted with the duty of collecting the certificates. The excellent results attained in the city of Newark, and in several other sanitary districts, show that painstaking efforts to trace up every birth and obtain a properly prepared certificate will reduce the defects of the system to small proportions. In view of the improvement in the quality of the local health officials which will undoubtedly attend the progress already being made under the provisions of chapter two hundred and fifteen of the laws of 1903, there seems to be ground for expectation that a change for the better will gradually occur in the collection of records of births, for when men who are qualified to estimate at their true value the records of births, marriages and deaths, and who comprehend that it is upon these data that all intelligent efforts for the promotion of the public health are founded, are

placed in charge of the work of gathering these facts for study and guidance in conducting the operations of the health department, there will be great advances made in collecting the returns of births.

Marriages.—In previous annual reports it has been shown that the large number of marriages recorded during the twelve years 1886-1897 was due to the enactment of a marriage-license law in Pennsylvania. The passage of a similar act in this State in 1897 at once restored the marriage rate to its nominal figures. Table 2 shows the number of marriages in New Jersey, and the number of persons married per 1,000 inhabitants, for twenty-five years.

TABLE 2.—SHOWING NUMBER OF MARRIAGES RECORDED IN NEW JERSEY FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

YEAR.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Marriages in New Jersey...	7,096	7,963	8,109	8,837	9,166	8,968	8,989	12,351	15,416
Persons married per 1,000 population	13.91	14.08	13.98	14.86	15.16	15.37	14.07	18.85	22.96
YEAR.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Marriages in New Jersey. ..	16,025	15,726	15,564	15,305	16,082	17,178	16,245	15,873	18,370
Persons married per 1,000 population	23.31	22.34	21.60	20.70	21.28	22.33	20.59	18.98	21.38
YEAR.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
Marriages in New Jersey. ..	18,171	13,213	13,336	14,611	16,539	18,150	19,512		
Persons married per 1,000 population	20.60	14.50	15.40	15.51	17.23	18.45	19.35		

Deaths.—During the year ending December 31, 1903, 31,820 deaths occurred in New Jersey. The population is estimated to be 2,016,796, and the death-rate for the year is therefore 15.78. Reference to the following tables will show that this is the lowest annual mortality for the State thus far recorded with the exception of the year 1898, when the rate was 15.10. Compared with the deaths which occurred during the previous year, the diminished mortality for 1903 is found to have been due, in part, to a smaller number of deaths from certain of the preventable affections, as follows: Typhoid fever caused 60 more deaths in 1902 than in 1903; small-pox caused 416 more; measles, 163; whooping cough, 36; and diarrhoeal diseases of children, 275.

TABLE 3.—POPULATION OF NEW JERSEY, BY COUNTIES, FOR THE CENSUS YEARS 1880, 1885, 1890, 1895, 1900, AND ESTIMATED POPULATION FOR 1903.

	1880.	1885.	1890.	1895.	1900.	1903
Atlantic.	18,704	22,356	28,836	34,750	46,402	53,394
Bergen.	36,786	39,880	47,226	65,251	78,441	86,257
Burlington.	55,403	57,558	58,528	59,117	58,241	58,241
Camden.	62,942	76,685	87,687	100,104	107,643	112,166
Cape May	9,765	10,744	11,268	12,855	13,201	13,409
Cumberland.	37,687	41,082	45,438	49,815	51,193	52,020
Essex.	189,929	213,764	256,098	312,000	359,053	387,285
Gloucester.	25,886	27,603	28,649	31,191	31,905	32,333
Hudson.	187,944	240,342	275,126	328,680	386,048	420,829
Hunterdon.	38,570	37,420	35,355	35,334	34,507	34,507
Mercer.	58,061	66,785	79,978	85,538	95,365	101,261
Middlesex.	52,286	56,180	61,754	70,058	79,762	85,584
Monmouth.	55,538	62,324	69,128	75,543	82,057	85,965
Morris.	50,861	50,675	54,101	59,536	65,156	68,528
Ocean.	14,455	15,586	15,974	18,739	19,747	20,352
Passiac.	68,860	83,374	105,046	133,227	155,202	168,447
Salem.	24,579	25,373	25,151	26,084	25,530	25,530
Somerset.	27,162	27,425	28,311	30,447	32,948	34,449
Sussex.	23,539	22,401	22,259	22,586	24,134	25,063
Union.	55,571	61,839	72,467	85,404	99,353	107,722
Warren.	36,589	37,737	36,553	37,283	37,781	38,080

REPORT OF THE BOARD OF HEALTH.

TABLE 4.—POPULATION OF THE CITIES OF NEW JERSEY HAVING 5,000 INHABITANTS OR OVER FOR THE CENSUS YEARS 1880, 1885, 1890, 1895 AND 1900, WITH ESTIMATED POPULATION FOR 1903.

	1880.	1885.	1890.	1895.	1900.	1903.
Atlantic County—						
Atlantic City	5,477	7,942	13,055			33,272
Bergen County—						
Englewood						6,745
Hackensack			6,004			10,739
Burlington County—						
Bordentown	5,334	5,857	5,090			4,110
Burlington	7,237	7,690	7,264			7,392
Camden County						
Camden City	41,659	52,884	58,313			79,811
Gloucester City	5,347	5,968	6,564			7,209
Cumberland County—						
Bridgeton	8,722	10,085	11,224			14,660
Millville	7,660	8,824	10,002			10,757
Essex County—						
Bloomfield			7,708			10,813
East Orange			13,282			23,972
Irvine						6,375
Montclair			8,656			15,555
Newark	136,508	152,988	181,830	2		265,394
Orange	13,207	15,231	18,844			25,731
West Orange			4,358			7,610
Hudson County—						
Bayonne	9,372	33,080	19,033			
Harrison	6,898	6,806	8,338			
Hoboken	30,999	37,721	43,648			
Jersey City	120,722	153,513	163,008	1		
Kearny						
Town of Union	5,849	8,398	10,618			
West Hoboken			11,665			
West New York						
Mercer County—						
Chambersburg	5,437	8,542				76,766
Trenton	29,910	34,386	57,458			
Middlesex County—						
New Brunswick	17,166	18,258	19,603	18,910		20,426
Perth Amboy			9,512	13,030		20,156
South Amboy			4,330	5,571		7,016
Monmouth County						
Long Branch		5,140	7,231	7,333		9,795
Red Bank			4,145	4,888		5,752
Morris County—						
Dover						6,488
Morristown	6,837	8,760	8,156	10,290		12,200
Passaic County—						
Passaic City	6,532		13,028	17,894		32,452
Paterson	51,031		78,347	97,344		113,217
Salem County—						
Salem City	5,056	5,316	5,516	6,337		5,811
Somerset County—						
North Plainfield				4,245		5,468
Union County—						
Elizabeth	28,229	32,119	37,764	43,834		56,441
Plainfield	8,125	8,913	11,267	13,629		16,599
Rahway	6,455	6,861	7,105	7,945		7,935
Summit				4,450		5,813
Warren County—						
Phillipsburg	7,181	8,058	8,644	9,081		11,975

TABLE 5.—DEATHS AND DEATH RATES IN NEW JERSEY, 1878—1903.

YEARS.	Deaths from all causes.	DEATH RATES.			
		Death- rate per 1,000 living.	Five-year period.	Ten-year period.	Twenty- five-year period.
1879.	20,440	20.03	19.09	18.71	18.23
1880.	18,967	16.77			
1881.	20,312	17.94			
1882.	25,959	21.82			
1883.	23,310	19.28			
1884.	21,716	17.40	18.25		
1885.	23,807	18.63			
1886.	22,734	17.35			
1887.	24,331	18.12			
1888.	27,173	19.76			
1889.	26,543	18.86	19.93	18.70	
1890.	28,530	19.80			
1891.	28,840	19.50			
1892.	32,685	21.62			
1893.	30,596	19.88			
1894.	30,004	19.09	17.46		
1895.	30,634	18.31			
1896.	30,769	17.90			
1897.	29,822	16.90			
1898.	27,337	15.11			
1899.	30,999	16.70	16.32		
1900.	31,474	16.62			
1901.	31,739	16.48			
1902.	31,319	15.91			
1903.	31,820	15.87			

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CHART SHOWING DEATH RATES IN NEW JERSEY PER 1000 INHABITANTS FOR
TWENTY-FIVE YEARS, 1879—1903.



SECRETARY'S REPORT.

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TABLE 6.—SHOWING NUMBER OF DEATHS FROM CERTAIN CLASSIFIED DISEASES
FOR TWENTY-FIVE YEARS, 1879-1903.

DISEASES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Acute lung diseases.....	2,160	1,988	2,208	2,752	2,756	2,174	2,566	2,300	2,557
Consumption, M.....	2,788	2,714	2,989	1,696	1,527	1,557	1,673	1,651	1,910
Consumption, F.....	.....	.....	.....	1,779	1,594	1,658	1,647	1,554	1,743
Diarrhoeal diseases of children.....	1,849	2,166	2,305	2,792	2,656	2,462	2,845	2,664	2,694
Adult brain and spinal diseases.....	1,314	1,347	1,502	1,521	1,562	1,664	1,895	1,932	1,966
Brain and nervous diseases of children.....	1,647	1,638	1,642	1,999	1,683	1,598	1,791	1,774	1,886
Diseases of heart and circulation.....	972	982	1,213	1,181	1,235	1,324	1,503	1,506	1,530
Diphtheria and croup.....	1,100	873	1,128	1,472	1,146	1,027	1,496	1,303	1,527
Digestive and intestinal diseases.....	1,041	1,005	1,080	740	923	1,075	1,140	1,213	1,242
Renal and cystic diseases..	558	516	608	765	759	892	939	926	873
Violent deaths.....	.....	.....	.....	793	907	.....	857	997	1,051
Cancer.....	378	425	451	402	461	484	498	546	574
Typhoid Fever.....	324	373	574	884	564	640	642	545	522
Scarlet fever.....	627	573	499	1,306	853	547	646	222	255
Puerperal.....	194	244	303	244	198	221	268	257	263
Whooping cough.....	277	130	110	253	189	116	181	274	181
Malarial fever.....	268	293	431	379	290	230	209	243	217
Measles.....	77	87	70	206	131	189	135	88	296
Erysipelas.....	137	109	124	94	90	80	74	79	96
Acute rheumatism.....	76	64	89	52	33	62	36	68	132
Small-pox.....	.....	15	254	367	54	7	2	4	5
Total deaths per year. . .	15,797	15,542	17,539	25,910	23,310	21,716	23,807	22,734	24,331

TABLE 6.—CONTINUED.

DISEASES.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Acute lung diseases.....	2,922	2,862	3,804	4,101	3,187	3,974	4,183	4,597	4,146
Consumption, M.....	1,723	1,772	1,903	1,849	1,851	1,790	1,831	1,860	1,786
Consumption, F.....	1,635	1,677	1,767	1,607	1,724	1,637	1,602	1,682	1,572
Diarrhoeal diseases of children.....	3,508	3,377	3,527	3,191	4,043	3,981	3,893	3,746	3,807
Adult brain and spinal diseases.....	2,095	1,991	2,308	2,333	2,457	2,611	2,413	2,626	2,610
Brain and nervous diseases of children.....	1,971	1,923	2,032	2,029	2,242	2,072	2,083	1,925	2,018
Diseases of the heart and circulation.....	1,691	1,786	1,945	1,960	2,183	2,179	2,112	2,268	2,412
Diphtheria and croup.....	2,036	1,574	1,575	1,737	1,776	1,677	1,294	1,464	1,587
Digestive and intestinal diseases.....	1,476	1,450	1,521	1,573	1,625	1,753	1,565	1,589	1,622
Renal and cystic diseases..	1,020	1,056	1,149	1,200	1,444	1,441	1,447	1,523	1,584
Violent deaths.....	1,320	1,077	1,235	1,365	1,427	1,538	1,500	1,469	1,426
Cancer.....	612	579	640	642	688	723	731	770	811
Typhoid fever.....	620	724	782	695	628	506	485	568	577
Scarlet fever.....	574	533	209	288	1,008	445	272	264	183
Puerperal.....	271	254	250	296	282	282	293	294	283
Whooping cough.....	161	278	371	299	163	237	328	272	275
Malarial fever.....	264	203	195	180	198	148	162	144	119
Measles.....	74	118	174	250	197	73	257	95	390
Erysipelas.....	128	114	81	85	94	74	97	74	69
Acute rheumatism.....	142	117	106	76	100	102	91	82	59
Small-pox.....	5	3	.....	.....	38	43	11	23	2
Total deaths per year. . .	27,173	26,543	28,530	28,840	32,685	30,596	30,004	30,634	30,767

TABLE 6.—CONTINUED.

DISEASES.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Acute lung diseases.....	4,039	3,414	4,322	4,795	.....	.....	.....
Consumption, M.	1,765	1,772	1,956	1,787	3257	3015	3,380
Consumption, F.	1,472	1,453	1,628	1,727	.....	.....	.....
Diarrhoeal diseases of children.....	3,450	2,958	3,568	3,010	1,895	1,878	1,603
Adult brain and spinal diseases.....	2,582	2,700	2,842	2,946	.....	.....	.....
Brain and nervous diseases of children.....	1,809	1,642	1,950	1,767	.....	.....	.....
Diseases of the heart and circulation.....	2,475	2,286	2,731	2,852	2,772	3,066	3,166
Diphtheria and croup....	1,382	950	777	927	683	683	748
Digestive and intestinal diseases.....	1,572	1,484	1,556	1,700	2,221	2,042	2,060
Renal and cystic diseases..	1,752	1,694	1,925	2,072	2,043	2,021	2,160
Violent deaths.....	1,685	1,451	1,724	1,724	2,153	1,775	2,010
Cancer.....	857	852	946	921	1,042	1,031	1,132
Typhoid fever.....	478	450	486	356	352	428	388
Scarlet fever.....	203	201	187	220	179	217	299
Puerperal.....	278	264	267	288	207	225	279
Whooping cough.....	321	155	282	306	157	281	245
Malarial fever.....	132	82	96	84	50	36	40
Measles.....	156	195	96	231	77	204	41
Erysipelas.....	68	58	88	111	71	69	86
Acute rheumatism.....	69	55	73	73	116	94	71
Small-pox.....	.....	.....	.....	5	142	432	16
Total deaths per year. ...	29,822	27,337	30,999	31,474	31,739	31,319	31,820

NOTE.—Total deaths as given include deaths under one month, which are not classified.

TABLE 7.—DEATHS IN NEW JERSEY, PER 10,000 POPULATION, FROM CERTAIN CLASSIFIED CAUSES FOR TWENTY-FIVE YEARS.

CAUSES OF DEATH.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Acute lung diseases.....	21.16	17.57	17.30	23.13	22.79	17.41	20.07	17.55	19.04
Consumption.....	27.31	23.99	25.76	29.21	25.81	25.75	25.97	24.45	27.20
Diarrhoeal diseases of children.....	18.11	19.15	19.43	15.06	21.96	19.72	22.25	20.32	20.06
Adult brain and spinal diseases.....	12.87	11.91	12.94	12.78	12.91	13.38	14.82	14.74	13.64
Brain and nervous diseases of children.....	16.13	14.48	14.15	16.80	13.92	12.80	14.01	13.53	14.04
Diseases of heart and circulation.....	9.52	8.68	10.45	9.92	10.21	10.60	11.75	11.49	11.39
Diphtheria and croup.....	10.86	7.71	9.72	12.37	9.47	8.21	11.70	9.94	11.37
Digestive and intestinal diseases.....	10.20	8.88	9.30	6.22	7.63	8.62	8.91	9.25	9.24
Renal and cystic diseases.....	5.46	4.56	5.24	6.43	6.27	7.14	7.34	7.06	6.50
Violent deaths.....	.....	.....	.....	6.60	7.50	.....	6.59	7.60	7.82
Cancer.....	3.70	3.75	3.88	3.37	3.81	3.87	3.89	4.15	4.21
Typhoid fever.....	3.17	3.29	4.94	7.43	4.66	5.12	5.02	4.15	3.83
Scarlet fever.....	6.14	5.06	4.30	10.09	7.05	4.38	5.05	1.69	1.89
Puerperal.....	1.90	2.15	2.61	2.05	1.63	1.77	2.09	1.96	1.95
Whooping cough.....	2.71	1.14	1.02	2.12	1.56	.92	.41	2.09	1.34
Malarial fever.....	2.62	2.59	3.74	3.10	2.39	1.84	1.62	1.85	1.61
Measles.....	.75	.76	.60	.78	1.08	1.51	1.05	.67	2.20
Erysipelas.....	1.34	.96	1.06	.79	.74	.64	.57	.60	.71
Acute rheumatism.....	.74	.56	.76	.43	.27	.49	.28	.51	.98
Small-pox.....	.....	.13	2.18	3.08	.44	.56	.01	.03	.03

TABLE 7.—CONTINUED.

CAUSES OF DEATH.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Acute lung diseases.....	21.74	20.83	26.39	27.73	34.31	25.82	26.50	27.49	24.12
Consumption.....	24.41	24.50	24.46	3.37	23.64	22.28	21.77	21.17	19.53
Diarrhoeal diseases of children.....	25.50	23.99	24.47	21.57	26.74	25.87	24.66	22.39	22.15
Adult brain and spinal diseases.....	15.23	14.14	16.01	15.77	16.25	16.96	15.28	15.69	15.18
Brain and nervous diseases of children.....	14.33	13.66	14.10	13.72	14.83	13.46	12.11	11.50	11.74
Diseases of heart and circulation.....	12.29	12.68	18.49	13.25	14.41	14.16	12.74	13.55	14.03
Diphtheria and croup.....	14.80	11.18	10.92	11.74	11.74	10.89	8.19	8.75	10.22
Digestive and intestinal diseases.....	10.73	10.30	10.55	10.63	10.74	11.39	9.92	9.49	9.43
Renal and cystic diseases.....	7.41	7.50	7.97	8.11	9.55	9.36	9.16	9.10	9.21
Violent deaths.....	9.59	7.65	8.57	9.23	9.48	9.99	9.50	8.78	8.29
Cancer.....	4.45	4.11	4.41	4.34	4.55	4.69	4.63	4.60	4.71
Typhoid fever.....	4.50	5.14	5.42	4.69	4.15	3.28	3.07	3.39	3.35
Scarlet fever.....	4.17	3.78	1.45	1.94	6.66	2.89	1.72	1.57	1.06
Puerperal.....	1.97	1.80	1.73	2.00	1.86	1.83	1.85	1.75	1.64
Whooping cough.....	1.17	1.97	2.57	2.07	1.07	1.54	2.07	1.62	1.60
Malarial fever.....	1.91	1.44	1.35	1.21	1.30	.96	1.02	.85	1.69
Measles.....	.53	.83	1.20	1.69	1.30	.47	1.62	.56	2.26
Erysipelas.....	.93	.80	.56	.57	.62	.48	.61	.41	.40
Acute rheumatism.....	.10	.83	.73	.51	.66	.66	.57	.49	.34
Small-pox.....	.03	.0225	.27	.06	.13	.01

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TABLE 7.—CONTINUED.

CAUSES OF DEATH.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Acute lung diseases.....	22.89	18.86	23.29	25.21	16.91	15.32	16.76
Consumption.....	18.34	17.81	19.31	18.48	16.91	15.32	16.76
Diarrhœal diseases of children.....	19.55	16.34	19.23	15.83	9.84	9.54	7.95
Adult brain and spinal diseases.....	14.63	14.91	15.31	15.49	.....	.....	.....
Brain and nervous diseases of children.....	10.25	9.06	10.53	9.29	.....	.....	.....
Diseases of heart and circulation.....	14.52	12.62*	14.72	14.99	14.37	15.58	15.70
Diphtheria and croup.....	7.83	5.24	4.19	4.87	3.55	3.74	3.71
Digestive and intestinal diseases.....	8.91	8.19	8.38	9.47	11.42	10.38	10.21
Renal and cystic diseases.....	9.92	9.85	10.37	10.90	10.45	10.27	10.71
Violent deaths.....	9.55	8.01	9.29	9.00	11.20	9.02	9.97
Cancer.....	4.83	4.70	5.10	4.81	5.42	5.24	5.61
Typhoid fever.....	2.70	2.48	2.62	1.87	1.83	2.17	1.92
Scarlet fever.....	1.15	1.11	1.01	1.16	.93	1.10	1.48
Puerperal.....	1.57	1.45	1.44	1.51	1.70	1.14	1.38
Whooping cough.....	1.81	.85	1.51	1.61	.82	1.43	1.21
Malarial fever.....	1.74	.45	.52	.40	.26	.18	.20
Measles.....	.88	1.47	.52	1.21	.40	1.04	.20
Erysipelas.....	.38	.32	.47	.58	.37	.35	.43
Acute rheumatism.....	.39	.31	.39	.38	.60	.43	.35
Small-pox.....	.....	.....	.....	.....	.74	2.20	.07

*Deaths under this classification were not separately recorded for these years.

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TABLE 8.—SHOWING DEATHS FROM CERTAIN SPECIFIED DISEASES FOR THE YEARS ENDING DECEMBER 31ST, 1902, AND DECEMBER 31ST, 1903. ALSO SHOWING AVERAGE NUMBER OF DEATHS FROM SAID DISEASES DURING PAST TWENTY-FIVE YEARS.

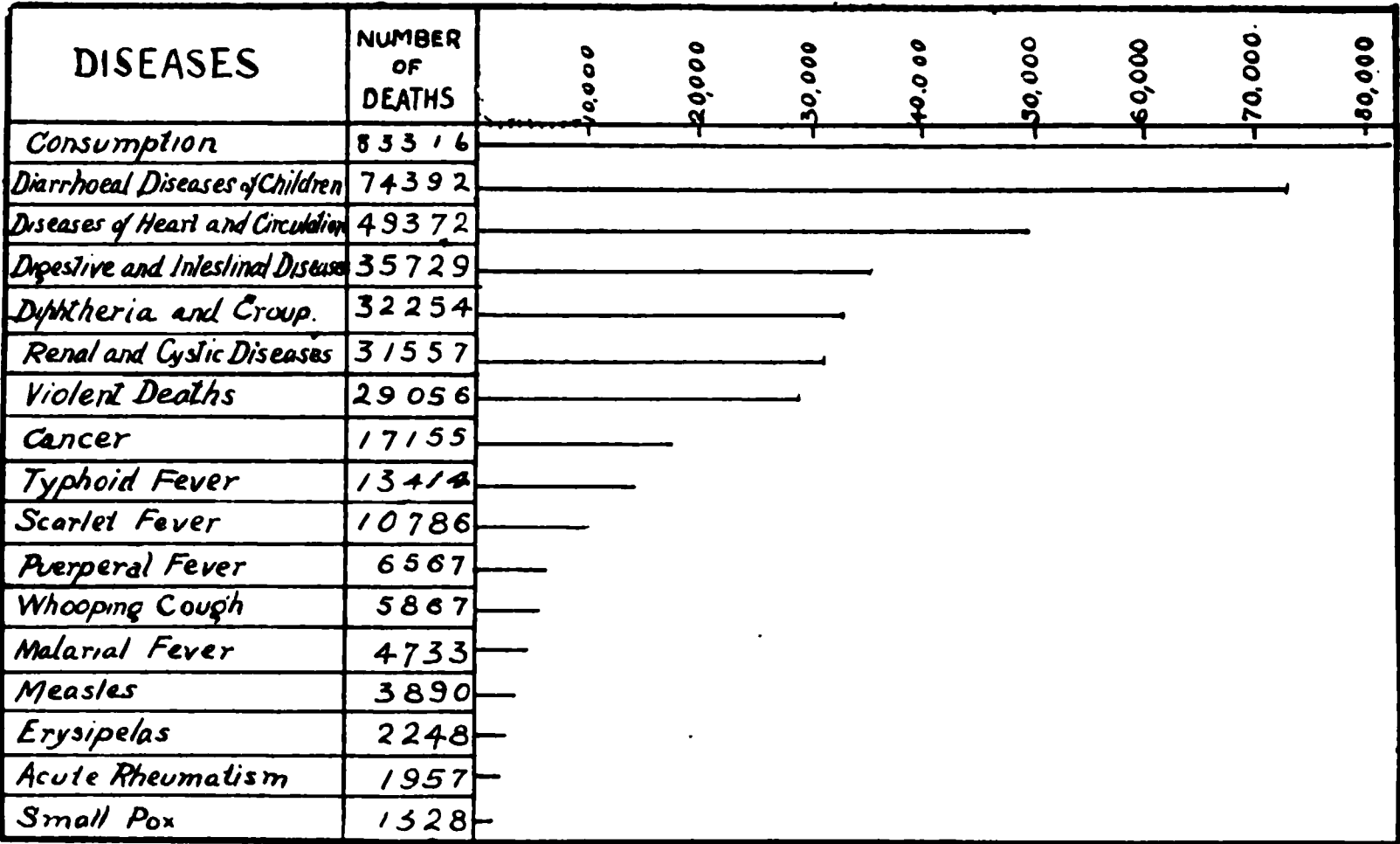
DISEASES.	Average number of deaths for twenty-five years.	Deaths during year ending December 31st, 1902.	Deaths during year ending December 31st, 1903.
Consumption.	3,318	3,015	3,380
Diarrhoeal diseases of children. . .	2,953	1,878	1,603
Pneumonia*. . . . .	.....	2,421	2,628
Diseases of heart and circulation. .	1,973	3,066	3,166
Digestive and intestinal diseases. .	1,450	2,042	2,060
Diphtheria and croup.	1,284	683	748
Renal and cystic diseases.	1,293	2,021	2,160
Violent deaths.	1,155	1,170	2,010
Cancer.	688	1,031	1,132
Typhoid fever.	544	428	388
Scarlet fever.	432	217	299
Puerperal.	260	225	279
Whooping cough.	234	281	245
Malarial fever.	188	36	40
Measles.	156	204	41
Erysipelas.	90	69	86
Acute rheumatism.	81	84	71
Small-pox.	58	432	16

* Deaths from pneumonia were not separately recorded until the year 1901.

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CHART SHOWING DEATHS IN NEW JERSEY FROM CERTAIN SPECIFIED DISEASES
FOR THE PAST TWENTY-FIVE YEARS, ARRANGED IN ORDER
OF GREATEST FREQUENCY.



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TABLE 9.—SHOWING MORTALITY IN NEW JERSEY FROM CERTAIN SELECTED CAUSES OF DEATH, FOR THE YEAR ENDING DECEMBER 31ST, 1903, COMPARED WITH DEATHS FOR THE PREVIOUS YEAR.

SELECTED DISEASES.	Deaths for year ending De- cember 31st, 1902.	Deaths for year ending De- cember 31st, 1903.	Com- parative Mortality.
Consumption.....	3,015	3,380	+ 365
Diseases of heart and circulation	3,066	31,66	+ 100
Renal and cystic diseases.	2,021	2,160	+ 139
Digestive and intestinal diseases.	2,042	2,060	+ 18
Diarrhoeal diseases of children. . .	1,878	1,603	— 275
Cancer.	1,031	1,132	+ 101
Diphtheria.	683	748	+ 65
Typhoid fever.	428	388	— 60
Scarlet fever.	217	299	+ 82
Puerperal diseases.	225	279	+ 54
Whooping cough.	281	245	— 36
Erysipelas.	69	86	+ 17
Acute Rheumatism.	84	71	— 13
Measles.	204	41	— 163
Malarial fever.	36	40	+ 4
Small-pox.	432	16	— 416

TABLE 10.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FOR THE YEAR ENDING DECEMBER 31ST, 1903, FROM TEN SELECTED PREVENTABLE DISEASES, WITH PERCENTAGE OF TOTAL MORTALITY.

NAME OF DISEASE.	Deaths.	Percentage. of total mortality
Consumption.	3,380	10.62
Pneumonia.	2,628	8.26
Diarrhoeal diseases of children.	1,603	5.04
Diphtheria.	748	2.35
Typhoid fever.	388	1.22
Whooping cough.	245	.77
Scarlet fever.	299	.94
Measles.	41	.13
Malarial fevers.	40	.13
Small-pox.	16	.05

TABLE II.—SHOWING DEATH-RATE PER 1,000 POPULATION IN THE CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION, FOR TWENTY-FIVE YEARS, 1879-1903.

NAMES OF CITIES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
*Atlantic City			24.46	31.76	26.29	32.50	23.54	21.03	27.20
Englewood.....									
Hackensack.....									
Bordentown.....	16.82	16.89	16.31	16.88	16.87	19.68	15.88	15.88	13.32
Burlington.....	21.10	15.61	18.37	22.94	18.51	18.93	24.45	21.46	17.30
Camden.....	18.88	19.27	22.90	24.55	20.01	22.37	18.30	19.27	20.40
Gloucester.....	14.10	15.70	20.19	18.32	21.88	21.69	15.42	16.59	22.96
Bridgeton.....	13.72	17.75	19.72	23.85	15.48	18.69	17.78	11.92	16.19
Millville.....	20.22	22.71	22.71	17.75	18.27	18.54	16.89	15.75	16.55
Newark.....	25.26	18.71	21.12	28.66	25.49	24.70	24.38	23.94	24.40
Orange.....	19.88	16.35	18.02	25.44	21.81	22.03	19.70	19.35	21.14
Bayonne.....	26.73	15.04	16.43	26.89	20.91	22.19	18.58	23.78	23.16
Harrison.....		23.41	20.00	24.61	22.18	32.08	28.96	26.01	26.74
Hoboken.....	27.01	28.71	25.82	31.42	25.90	22.19	22.35	24.52	24.28
Jersey City.....	28.04	20.98	23.61	30.12	25.74	25.15	22.42	22.02	24.01
Town of Union.....		20.04	18.80	36.93	35.73	23.42	25.84	22.03	22.74
Trenton.....	26.08	20.68	18.89	20.53	20.79	21.13	17.48	15.12	17.80
New Brunswick.....	19.50	15.66	18.81	22.78	26.79	28.18	18.40	19.06	19.17
Perth Amboy.....								19.17	23.77
Long Branch.....								12.84	14.00
Morristown.....	16.40	18.71	15.94	17.70	28.96	20.77	14.61	13.70	13.58
Passaic.....		21.78	19.44	22.82	20.82	23.58	16.64	21.02	22.82
Paterson.....	25.61	23.07	22.75	29.61	27.72	28.33	20.29	17.38	22.83
Salem.....		15.02	14.63	19.58	23.14	15.43	19.22	22.30	16.13
Elizabeth.....	18.20	15.58	19.97	21.68	24.30	20.93	21.70	18.90	22.32
Plainfield.....	18.01	12.06	16.00	18.58	19.81	16.25	15.82	17.17	17.17
Rahway.....	24.31	17.97	16.11	28.35	20.29	17.19	15.60	14.58	16.91
Phillipsburg.....	14.08	17.54	15.87	23.53	20.46	18.10	18.37	14.40	19.24

*The death-rate in summer resorts is calculated on the basis of the resident population whereas the real population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

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TABLE 11.—CONTINUED.

NAMES OF CITIES.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
*Atlantic City	29.34	26.93	20.01	20.46	20.19	16.47	18.38	19.20	18.78
Englewood.....									
Hackensack.....						20.71	13.50	15.52	11.54
Bordentown.....	16.56	15.02	18.43	20.79	30.72	17.44	14.91	15.65	18.07
Burlington.....	21.46	20.13	18.30	20.44	24.24	18.82	25.47	18.87	19.28
Camden.....	22.79	18.73	23.15	23.68	25.37	22.06	23.35	22.07	19.97
Gloucester.....	23.13	21.82	18.89	21.85	23.38	24.77	20.73	23.78	28.13
Bridgeton.....	17.69	14.81	17.70	19.50	16.55	17.62	16.38	16.85	14.41
Millville.....	21.65	13.43	19.48	16.51	16.62	15.23	13.79	17.01	15.34
Montclair									13.90
Newark.....	27.02	25.59	27.26	23.69	29.17	24.67	22.68	21.52	20.79
Orange.....	24.49	22.85	24.50	20.29	23.31	20.38	19.37	18.69	19.89
Bayonne.....	26.38	24.24	20.37	20.37	21.11	19.74	19.71	22.51	20.52
Harrison.....	28.50	26.65	27.67	31.70	28.27	26.50	22.17	25.12	25.45
Hoboken.....	28.13	25.57	25.62	25.41	26.97	23.97	24.63	22.98	22.59
Jersey City	25.93	22.66	25.96	26.60	27.78	26.67	25.32	24.61	23.61
Town of Union.....	24.77	19.74	22.42	26.05	20.80	20.31	18.97	17.62	15.86
Trenton.....	19.51	14.94	17.35	15.51	19.75	16.16	14.14	18.01	18.60
New Brunswick.....	19.28	20.18	17.71	17.51	24.60	16.31	17.96	17.38	20.03
Perth Amboy.....	27.41	24.76	17.41	23.05	22.61	19.71	18.47	18.96	17.84
South Amboy.....									
Long Branch.....	20.04	12.41	14.66	12.16	12.40	10.85	9.88	14.18	12.51
Morristown.....	18.95	24.32	19.91	16.55	20.80	18.55	19.04	18.56	18.85
Passaic	21.38	24.86	16.81	23.77	22.27	21.64	20.07	21.57	22.26
Paterson.....	27.17	23.02	21.87	22.95	22.61	21.00	20.31	18.25	19.22
Salem.....	18.85	18.18	17.60	16.86	19.58	17.42	20.49	16.69	16.77
Elizabeth	23.28	20.18	19.30	19.41	21.19	20.22	18.95	18.23	18.05
Plainfield.....	22.31	16.97	16.89	16.87	17.04	19.21	17.33	17.39	18.37
Rahway.....	20.41	19.20	19.32	17.61	23.05	23.87	18.76	18.12	17.13
Phillipsburg.....	13.28	15.98	14.96	15.75	14.77	14.29	13.50	20.71	14.70

TABLE 11.—CONTINUED.

NAMES OF CITIES.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Aver. for 25 yrs.
*Atlantic City	20.45	16.89	19.03	17.85	10.85	16.28	15.33	.....
Englewood.....	.....	.....	17.57	17.75	15.74	10.45	15.86	.....
Hackensack.....	14.49	11.43	14.94	13.66	17.52	18.34	16.39	.....
Bordentown.....	14.78	18.17	17.35	19.46	16.55	17.27	18.73	17.54
Burlington.....	18.20	14.28	16.87	24.76	19.75	21.28	22.46	20.13
Camden.....	20.71	17.82	19.35	14.11	17.56	16.90	16.05	20.42
Gloucester.....	25.61	18.31	19.50	19.88	11.27	21.03	17.89	20.27
Bridgeton.....	15.02	13.10	13.74	14.38	13.32	13.89	13.78	16.27
Millville.....	9.67	12.38	13.38	15.78	14.61	16.27	14.13	16.59
Bloomfield .....	.....	.....	.....	.....	14.55	13.50	11.21	.....
East Orange.....	.....	.....	.....	10.97	9.71	10.94	9.72	.....
Irvington .....	.....	.....	.....	.....	9.24	14.66	12.86	.....
Montclair	10.63	11.76	13.00	15.11	16.87	14.48	17.42	.....
Newark.....	19.60	16.65	19.40	19.60	19.14	18.71	18.47	22.82
Orange.....	16.50	19.08	18.19	20.63	17.45	20.26	20.40	20.42
West Orange .....	.....	.....	.....	.....	13.25	10.27	10.52	.....
Bayonne.....	21.80	25.00	25.59	17.39	16.38	15.32	18.44	21.14
Harrison.....	18.61	23.77	19.18	22.37	21.24	19.33	18.63	.....
Hoboken.....	21.94	18.06	19.01	23.01	18.67	18.80	17.70	23.63
Jersey City.....	19.60	19.16	19.78	20.34	19.12	18.65	18.82	23.27
Kearny.....	.....	.....	.....	.....	.....	17.45	17.68	.....
Town of Union.....	14.70	13.58	11.63	14.16	11.25	16.39	16.07	.....
West Hoboken.....	.....	.....	.....	.....	.....	12.95	11.76	.....
West New York.....	.....	.....	.....	.....	.....	14.85	11.98	.....
Trenton.....	16.44	15.45	17.71	16.42	16.35	17.19	18.30	18.01
New Brunswick.....	19.33	14.73	16.04	21.29	18.18	20.00	19.43	19.33
Perth Amboy.....	17.11	14.93	16.16	14.46	16.53	14.82	12.70	.....
South Amboy.....	17.31	13.14	12.65	13.86	16.14	19.52	15.68	.....
Long Branch.....	14.11	18.13	17.51	18.15	24.07	21.50	20.21	.....
Red Bank.....	.....	.....	.....	.....	16.44	12.58	12.52	.....
Dover.....	19.12	15.73	14.34	12.46	16.01	15.39	13.87	.....
Morristown.....	16.16	17.38	19.18	16.38	18.50	16.64	17.95	18.40
Passaic.....	24.29	19.84	23.64	20.99	18.22	17.74	20.03	.....
Paterson.....	18.71	15.89	19.65	18.70	17.53	16.37	15.28	21.42
Salem.....	16.65	18.30	18.30	20.13	14.11	16.00	17.21	.....
North Plainfield.....	.....	.....	.....	.....	12.40	12.44	13.17	.....
Elizabeth.....	17.16	15.50	17.25	17.69	17.17	15.30	16.55	19.12
Plainfield.....	15.91	14.16	15.72	16.01	16.36	15.94	15.84	16.93
Rahway.....	16.06	14.30	16.67	15.50	14.87	17.52	15.50	18.37
Summit.....	.....	.....	.....	.....	14.62	11.81	14.28	.....
Phillipsburg.....	16.75	18.40	13.68	12.13	14.34	15.04	13.44	16.13

Consumption.—The number of deaths certified as being caused by pulmonary tuberculosis was 3,380, or 16.76 per 10,000 inhabitants. The following tables show the number of deaths recorded in New Jersey from this cause during the past twenty-five years.

TABLE 12.—SHOWING NUMBER OF DEATHS AND DEATHS PER 10,000 POPULATION FROM CONSUMPTION IN NEW JERSEY FOR TWENTY-FIVE YEARS.


YEARS.	Population.*	Number of deaths from consumption.	Deaths from consumption per 10,000 population.
1879.....	1,020,584	2,788	27.32
1880.....	1,130,892	2,714	24.00
1881.....	1,160,275	2,989	25.76
1882.....	1,189,658	3,475	29.21
1883.....	1,209,048	3,121	25.81
1884.....	1,248,224	3,215	25.76
1885.....	1,278,033	3,320	25.19
1886.....	1,310,431	3,205	24.46
1887.....	1,342,829	3,653	27.20
1888.....	1,375,227	3,358	24.42
1889.....	1,407,625	3,449	24.50
1890.....	1,441,017	3,669	25.46
1891.....	1,478,784	3,456	23.37
1892.....	1,511,653	3,575	23.65
1893.....	1,538,799	3,429	22.28
1894.....	1,578,373	3,433	21.75
1895.....	1,672,942	3,542	21.17
1896.....	1,718,543	3,358	19.54
1897.....	1,764,144	3,237	18.35
1898.....	1,810,008	3,225	17.82
1899.....	1,855,872	3,584	19.31
1900.....	1,883,669	3,514	18.64
1901.....	1,925,781	3,257	16.91
1902.....	1,967,893	3,015	15.32
1903.....	2,016,797	3,380	16.76

*Estimated except for census years.

TABLE 13.—SHOWING THE PROPORTION OF DEATHS FROM CONSUMPTION TO TOTAL DEATHS DURING TWENTY-FIVE YEARS.

YEARS.	Total deaths in New Jersey.	Deaths from consump- tion.	Proportion of deaths from con- sumption to total deaths.
1879.....	20,444	2,788	13.64
1880.....	18,967	2,714	14.30
1881.....	20,810	2,989	14.36
1882.....	25,910	3,475	13.41
1883.....	23,310	3,121	13.39
1884.....	21,716	3,215	14.80
1885.....	23,807	3,320	13.94
1886.....	22,734	3,205	14.10
1887.....	24,331	3,653	15.01
1888.....	27,173	3,358	12.44
1889.....	26,543	3,449	12.99
1890.....	28,530	3,669	12.96
1891.....	28,840	3,456	11.98
1892.....	32,685	3,575	10.94
1893.....	30,596	3,429	11.21
1894.....	30,004	3,433	11.44
1895.....	30,634	3,542	11.56
1896.....	30,767	3,358	10.92
1897.....	29,822	3,237	10.85
1898.....	27,337	3,225	11.79
1899.....	30,999	3,584	11.56
1900.....	31,474	3,514	11.17
1901.....	31,739	3,257	10.26
1902.....	33,655	3,015	8.96
1903.....	31,820	3,380	10.62

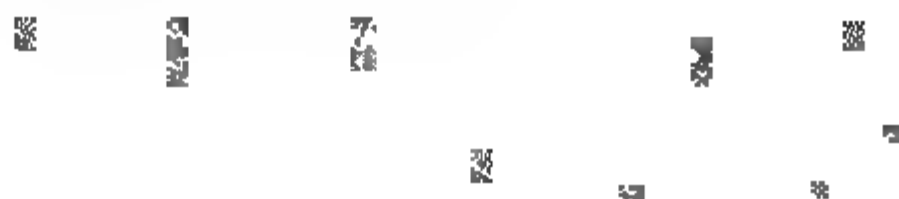
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COUNTIES	AVERAGES PER YEAR.			
	FOR TWENTY-FIVE YEARS		YEAR ENDING DECEMBER 31, 1903.	
	Deaths from consumption.	Deaths from all causes.	Deaths from consumption.	Deaths from all causes.
Atlantic County	60	542	75	815
Bergen County	87	409	96	1,181
Burlington County	109	889	83	936
Camden County	209	1,700	210	1,836
Cape May County	19	168	19	177
Cumberland County	95	263	80	706
Essex County	754	5,407	848	6,615
Gloucester County	54	432	30	383
Hudson County	786	6,465	878	7,532
Hunterdon County	55	489	24	482
Mercer County	186	1,377	176	1,662
Middlesex County	118	1,058	100	1,243
Monmouth County	123	1,063	107	1,174
Morris County	102	483	71	1,027
Ocean County	37	249	25	202
Passaic County	265	2,154	263	2,655
Salem County	50	374	50	364
Somerset County	51	432	36	427
Sussex County	36	285	25	230
Union County	157	1,306	144	1,638
Warren County	58	554	40	535
The State	3,318	27,248	3,380	31,820

The State	3,318	27,248	3,380	31,820
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CHART SHOWING DEATHS FROM CONSUMPTION IN NEW JERSEY PER 10,000 POPULATION FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.



Diarrhoeal Diseases of Children.—The number of deaths under 5 years has diminished almost continuously during the past decade. This improvement has been altogether out of proportion to the decrease in the general death-rate and it is mainly due to the low mortality caused by the preventable diseases. The average annual deaths in this group, from diarrhoeal diseases, per 10,000 inhabitants, during the first ten years for which vital statistics were recorded in this State, numbered 20.20, while during the last ten years (1894-1903) the average has been 14.48, and the annual rate for the past three years has been as follows: 1901, 9.84; 1902, 9.54; 1903, 7.95. Compared with the period 1879-1888, the deaths from diarrhoeal diseases of children during the past three years have been reduced 44 per cent. The causes which have led to the great reduction in the death-rate of children under 5 years of age are still at work, and still greater improvement is in prospect. A revolution has been commenced in the conduct of dairy farms, and clean milk is, to a limited extent, already being

sent to market. Physicians have thus far been the agents through whom the saving of nearly 50 % of the child life of the State has been effected, and health officers are now actively proceeding to educate dairymen and milk dealers and to bring them to a realizing sense of the importance of aseptic methods in the handling of infants' food. One of the factors which has doubtless served an important part in lowering the mortality among children is the establishment and extension of public water supplies in New Jersey, and the consequent elimination of many domestic wells and other dangerous sources of water supply. The contamination of food by flies is also receiving attention, and a movement for the abolishment of open privies is making progress. The following ordinance to prevent the spread of disease through the agency of flies has been adopted in one of the seaside resorts.

Section 1. Be it ordained by the Board of Health of..... that in addition to the nuisances already defined in the ordinance to which this ordinance is a supplement, the construction, maintenance, use or continuance of any privy vault, or other receptacle in or upon the ground for human excrement in such manner that the filthy contents thereof shall be accessible to flies, shall constitute, and is hereby declared to be a nuisance; and the construction, maintenance, use or continuance thereof is hereby prohibited.

Section 2. Any person or corporation violating the provisions of this ordinance, shall on conviction, forfeit and pay a penalty of twenty-five dollars.

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Every pile of fresh horse dung is a prolific breeding place for flies, and active measures by local boards of health are justifiable for the enforcement of requirements which will compel owners of horses in built-up districts to dispose of the solid excrement of these animals in a manner which will prevent its becoming a nuisance. On one of the largest dairy premises in the State, it is the practice to dispose of the stable manure daily by spreading it upon the lands of the farm, and this is believed by the managers of the establishment to be a more economical use of the excreta than to pile it up and allow decomposition to occur before it is placed in the fields.

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**CHART SHOWING DEATHS IN NEW JERSEY AMONG CHILDREN UNDER FIVE YEARS
OF AGE PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS.**



TABLE 16.—SHOWING DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE IN NEW JERSEY PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS.

YEARS.	Deaths under 1 year per 10,000 population.	Deaths from 1 to 5 years per 10,000 population.	YEARS.	Deaths under 1 year per 10,000 population.	Deaths from 1 to 5 years per 10,000 population.
1879.....	45.58	33.97	1891.....	46.90	25.36
1880.....	40.38	25.12	1892.....	52.74	29.08
1881.....	39.90	25.75	1893.....	49.22	24.26
1882.....	49.88	38.48	1894.....	49.75	22.97
1883.....	44.48	28.22	1895.....	45.67	21.79
1884.....	41.04	22.82	1896.....	43.99	24.43
1885.....	44.69	26.67	1897.....	40.16	20.00
1886.....	41.31	23.83	1898.....	35.91	15.83
1887.....	43.56	25.29	1899.....	38.22	17.04
1888.....	47.51	28.90	1900.....	37.05	18.44
1889.....	48.61	24.95	1901.....	36.11	13.48
1890.....	49.38	25.38	1902.....	36.18	13.63
			1903.....	37.08	15.38

TABLE 17.—SHOWING DEATHS IN NEW JERSEY FROM DIARRHOEAL DISEASES OF CHILDREN, WITH AGES AT DEATH, COMPARED WITH DEATHS FROM ALL CAUSES AMONG CHILDREN UNDER FIVE YEARS OF AGE, FOR YEAR ENDING DECEMBER 31, 1903.

AGE PERIODS.	Deaths from diarrhoeal diseases.	Deaths from all causes among children under five years of age.
Under one month	114	2,091
Over one month and under one year	1,141	4,105
One to five	348	2,754
Total	1,603	9,950

TABLE II.—SHOWING DEATH-RATE PER 1,000 POPULATION IN THE CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION, FOR TWENTY-FIVE YEARS, 1879-1903.

NAMES OF CITIES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
*Atlantic City			24.46	31.76	26.29	32.50	23.54	21.03	27.20
Englewood.....									
Hackensack.....									
Bordentown.....	16.82	16.89	16.31	16.88	16.87	19.68	15.88	15.88	13.32
Burlington.....	21.10	15.61	18.37	22.94	18.51	18.93	24.45	21.46	17.30
Camden.....	18.88	19.27	22.90	24.55	20.01	22.37	18.30	19.27	20.40
Gloucester.....	14.10	15.70	20.19	18.32	21.88	21.69	15.42	16.59	22.96
Bridgeton.....	13.72	17.75	19.72	23.85	15.48	18.69	17.78	11.92	16.19
Millville.....	20.22	22.71	22.71	17.75	18.27	18.54	16.89	15.75	16.55
Newark.....	25.26	18.71	21.12	28.66	25.49	24.70	24.38	23.94	24.40
Orange.....	19.88	16.35	18.02	25.44	21.81	22.03	19.70	19.35	21.14
Bayonne.....	26.73	15.04	16.43	26.89	20.91	22.19	18.58	23.78	23.16
Harrison.....		23.41	20.00	24.61	22.18	32.08	28.96	26.01	26.74
Hoboken.....	27.01	28.71	25.82	31.42	25.90	22.19	22.35	24.52	24.28
Jersey City.....	28.04	20.98	23.61	30.12	25.74	25.15	22.42	22.02	24.01
Town of Union.....		20.04	18.80	36.93	35.73	23.42	25.84	22.03	22.74
Trenton.....	26.08	20.68	18.89	20.53	20.79	21.13	17.48	15.12	17.80
New Brunswick.....	19.50	15.66	18.81	22.78	26.79	28.18	18.40	19.06	19.17
Perth Amboy.....								19.17	23.77
Long Branch.....								12.84	14.00
Morristown.....	16.40	18.71	15.94	17.70	28.96	20.77	14.61	13.70	13.58
Passaic.....		21.78	19.44	22.82	20.82	23.58	16.64	21.02	22.82
Paterson.....	25.61	23.07	22.75	29.61	27.72	28.33	20.29	17.34	22.83
Salem.....		15.02	14.63	19.58	23.14	15.43	19.22	22.30	16.13
Elizabeth.....	18.20	15.58	19.97	21.68	24.30	20.93	21.70	18.90	22.32
Plainfield.....	18.01	12.06	16.00	18.58	19.81	16.25	15.82	17.17	17.17
Rahway.....	24.31	17.97	16.11	28.35	20.29	17.19	15.60	14.58	16.91
Phillipsburg.....	14.08	17.54	15.87	23.53	20.46	18.10	18.37	14.40	19.24

*The death-rate in summer resorts is calculated on the basis of the resident population whereas the real population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

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TABLE 11.—CONTINUED.

NAMES OF CITIES.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
*Atlantic City	29.34	26.93	20.01	20.46	20.19	16.47	18.38	19.20	18.78
Englewood									
Hackensack						20.71	13.50	15.52	11.54
Bordentown	16.56	15.02	18.43	20.79	30.72	17.44	14.91	15.65	18.07
Burlington	21.46	20.13	18.30	20.44	24.24	18.82	25.47	18.87	19.28
Camden	22.79	18.73	23.15	23.68	25.37	22.06	23.35	22.07	19.97
Gloucester	23.13	21.82	18.89	21.85	23.38	24.77	20.73	23.78	28.13
Bridgeton	17.69	14.81	17.70	19.50	16.55	17.62	16.38	16.85	14.41
Millville	21.65	13.43	19.48	16.51	16.62	15.23	13.79	17.01	15.34
Montclair									13.90
Newark	27.02	25.59	27.26	23.69	29.17	24.67	22.68	21.52	20.79
Orange	24.49	22.85	24.50	20.29	23.31	20.38	19.37	18.69	19.89
Bayonne	26.38	24.24	20.37	20.37	21.11	19.74	19.71	22.51	20.52
Harrison	28.50	26.65	27.67	31.70	28.27	26.50	22.17	25.12	25.45
Hoboken	28.13	25.57	25.62	25.41	26.97	23.97	24.63	22.98	22.59
Jersey City	25.93	22.66	25.96	26.60	27.78	26.67	25.32	24.61	23.61
Town of Union	24.77	19.74	22.42	26.05	20.80	20.31	18.97	17.62	15.86
Trenton	19.51	14.94	17.35	15.51	19.75	16.16	14.14	18.01	18.60
New Brunswick	19.28	20.18	17.71	17.51	24.60	16.31	17.96	17.38	20.03
Perth Amboy	27.41	24.76	17.41	23.05	22.61	19.71	18.47	18.96	17.84
South Amboy									
Long Branch	20.04	12.41	14.66	12.16	12.40	10.85	9.88	14.18	12.51
Morristown	18.95	24.32	19.91	16.55	20.80	18.55	19.04	18.56	18.85
Passaic	21.38	24.86	16.81	23.77	22.27	21.64	20.07	21.57	22.26
Paterson	27.17	23.02	21.87	22.95	22.61	21.00	20.31	18.25	19.22
Salem	18.85	18.18	17.60	16.86	19.58	17.42	20.49	16.69	16.77
Elizabeth	23.28	20.18	19.30	19.41	21.19	20.22	18.95	18.23	18.05
Plainfield	22.31	16.97	16.89	16.87	17.04	19.21	17.33	17.39	18.37
Rahway	20.41	19.20	19.32	17.61	23.05	23.87	18.76	18.12	17.13
Phillipsburg	13.28	15.98	14.96	15.75	14.77	14.29	13.50	20.71	14.70

TABLE 22.—SHOWING DEATHS IN HOBOKEN, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Hoboken	1,164	1,156	1,140
Deaths under five years	375	403	349
Deaths under five years from diarrhœa	125	51	55
Percentage of deaths under five years to total deaths.	32.22	34.86	30.61
Deaths under five years per 10,000 population.	62.07	65.55	55.14

TABLE 23.—SHOWING DEATHS IN CAMDEN CITY, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Camden City.	13.69	13.68	12.81
Deaths under five years.	522	436	448
Deaths under five years from diarrhœa	155	58	63
Percentage of deaths under five years to total deaths.	38.13	31.87	34.97
Deaths under five years per 10,000 population.	66.56	55.60	56.13

Pneumonia.—The deaths recorded as having been due to pneumonia numbered 2,628, this being 207 more than were reported from this disease during the preceding year. Reference to table 24 shows that pneumonia is second only to pulmonary tuberculosis as a cause of death in New Jersey, having caused 8.26 per cent., or about one-twelfth of the total mortality. Until 1901 pneumonia was included in the general classification "acute lung diseases," and therefore the comparative mortality from this disease can only be shown for the past three years.

TABLE 24.—SHOWING DEATHS IN NEW JERSEY FROM PNEUMONIA, WITH AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903

TABLE 25.—SHOWING DEATHS FROM PNEUMONIA IN CITIES OF OVER 5,000 INHABITANTS, IN NEW JERSEY, BY MONTHS, FOR THE YEAR ENDING DECEMBER 31, 1903.

Deaths from Pneumonia in cities of over 5,000 inhabitants.	Estimated Population.	MONTHS.												Total.
		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
	1,363,464	271	288	261	128	155	67	98	58	75	91	202	278	1 972

Diphtheria.—Seven hundred and forty-eight deaths were caused by diphtheria during the year, and of these 391, or 52%, occurred in children over 1 and under 5 years of age. The average annual mortality in New Jersey from diphtheria and croup for the first ten years of the period during which records of vital statistics have been kept, 1879-1888, was 1,310, while for the six years 1898-1903, when the use of antitoxin was generally resorted to, the average annual deaths, notwithstanding the great increase in population, numbered only 476. When stated per 10,000 inhabitants this diminution in the mortality from diphtheria is found to be more striking, for the average number of deaths from this disease during the nineteen years, 1879-1897, per 10,000 inhabitants, was 10.40, while the average for the six years 1898-1903 was only 4.22.

The spread of diphtheria from convalescents, and from those who are not ill, but who are carrying the diphtheria bacilli in their throats, is believed to be more frequent than from patients who are acutely affected with the disease, and it appears improbable that this mode of transmission will be controlled until the public is better informed concerning the dangers which attend contact of the lips with articles liable to convey the infection. Health officers will be justified in requiring that laboratory examinations shall be made of cultures from all patients and also from all persons, including nurses and attendants who have been exposed to the disease, and the isolation restrictions should be continued until at least two consecutive negative reports have been received. It has in some cases been found that virulent diphtheria bacilli subsequently appeared after three negative examinations, but in these individuals the bacilli were harbored by enlarged tonsils.

TABLE 26.—SHOWING DEATHS IN NEW JERSEY FROM DIPHTHERIA, WITH AGES OF DECEDENTS, FOR YEAR ENDING DECEMBER 31, 1903.

AGE PERIODS.	Deaths from diphtheria.	AGE PERIODS.	Deaths from diphtheria.	AGE PERIODS.	Deaths from diphtheria.
Under 1 month.	3	25 to 30...	1	60 to 70. . .	1
Under 1 year ..	39	30 to 35...	4	70 to 80. . .	2
1 to 5	391	35 to 40...	3	80 to 90. . .	1
5 to 10	238	40 to 45...	0	Over 90. . .	0
10 to 15	42	45 to 50...	0	Not stated	2
15 to 20	13	50 to 55...	1		
20 to 25	6	55 to 60 .	1	Total.	748

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TABLE 29.—DEATHS FROM CANCER IN NEW JERSEY, SHOWING ORGANS AFFECTED, AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903.

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CHART SHOWING DEATHS IN NEW JERSEY FROM CANCER, PER 10,000 INHABITANTS, FOR TWENTY-FIVE YEARS, 1879—1903.



food and the early diagnosis of cases by securing the forwarding of specimens of blood to the State laboratory of hygiene for examination.

TABLE 30.—SHOWING DEATHS PER 10,000 POPULATION FROM TYPHOID FEVER IN NEW JERSEY, FOR TWENTY-FIVE YEARS.

YEAR.	Popula- tion.*	Number of deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants.	YEAR	Popula- tion.	Deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants.
1879.....	1,020,584	324	3.17	1891....	1,478,784	695	4.69
1880.....	1,130,892	373	3.29	1892....	1,511,653	628	3.15
1881.....	1,160,275	574	4.94	1893....	1,538,799	506	3.28
1882.....	1,189,658	884	7.43	1894....	1,578,373	485	3.07
1883.....	1,209,048	564	4.66	1895....	1,672,942	568	3.39
1884.....	1,248,224	640	5.12	1896....	1,718,543	577	3.35
1885.....	1,278,033	642	5.02	1897....	1,764,144	478	2.70
1886.....	1,310,431	545	4.15	1898....	1,810,008	450	2.48
1887.....	1,342,829	522	3.88	1899....	1,855,872	486	2.62
1888.....	1,375,227	620	4.50	1900....	1,883,666	356	1.87
1889.....	1,407,625	724	5.14	1901....	1,925,781	352	1.93
1890.....	1,441,017	782	5.42	1902....	1,967,893	428	2.17
				1903....	2,016,797	388	1.92

*Population estimated except for census years.

TABLE 31.—SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, FOR YEAR ENDING DECEMBER 31, 1903, AND SHOWING ALSO THE NUMBER OF DEATHS FROM THIS DISEASE IN URBAN AND RURAL DISTRICTS, TOGETHER WITH POPULATION AND DEATHS PER 10,000 INHABITANTS.

	Aggregate population.	Deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 population.
State	2,016,797	388	1.93
Cities	1,363,464	292	2.14
Rural districts	653,333	96	1.47

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TABLE 32.—SHOWING DEATHS IN NEW JERSEY, FROM TYPHOID FEVER, WITH AGE AT DEATH, FOR YEAR ENDING DECEMBER 31, 1903

TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TYPHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1903, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER-SUPPLY AND NATURE OF DRAINAGE.

NAME OF SANITARY DISTRICT.	Estimated Population.	Number of deaths from typhoid fever.	Water Supply.	Drainage.
Acquackanonk Township.....	5,351	1	Domestic. . . .	No sewers.
Alloway Township.....	1,528	1	Domestic. . . .	No sewers.
Atlantic City.....	33,272	11	Public.	Sewers.
Bayonne City.....	36,829	9	Public.	Sewers.
Belleville Township.....	5,907	2	Public.	No sewers.
Belmar Bo.....	902	1	Public.	Sewers.
Belvidere.....	1,784	1	Public.	Sewers.
Bernards Township.....	3,056	1	Domestic. . . .	No sewers.
Boonton City.....	3,901	1	Public.	Sewers.
Bordentown City.....	4,110	5	Public.	Sewers.
Bordentown Townshlp.....	488	1	Domestic. . . .	No sewers.
Bridgeton.....	14,660	2	Public.	Sewers.
Buena Vista Township.....	1,646	1	Domestic. . . .	No sewers.
Burlington City.....	7,392	8	Public.	Sewers.
Butler Borough.....	.....	1	Domestic. . . .	No sewers.
Caldwell Borough.....	1,367	1	Domestic. . . .	No sewers.
Camden City.....	79,811	8	Public.	Sewers.
Clayton Borough.....	1,951	1	Public.	No sewers.
Cliffside Park Borough.....	968	1	Domestic. . . .	No sewers.
Cranford Township.....	2,854	1	Domestic. . . .	No sewers.
Delaware Township (Hunt).....	1,953	2	Domestic. . . .	No sewers.
Depford.....	2,114	1	Domestic. . . .	No sewers.
Dover City.....	6,488	2	Public.	Sewers.
Eagleswood Township.....	568	1	Domestic. . . .	No sewers.
East Greenwich.....	1,323	2	Domestic. . . .	No sewers.
East Orange City.....	23,972	2	Public.	No sewers.
Elizabeth.....	56,441	13	Public.	Sewers.
Elmer Borough.....	1,140	1	Public.	No sewers.
Englewood City.....	6,745	1	Public.	Sewers.
Florence Township.....	1,955	1	Domestic. . . .	No sewers.
Franklin Township (Glou).....	2,252	1	Domestic. . . .	No sewers.
Freehold.....	2,934	2	Public.	Sewers.
Galloway Township.....	2,469	2	Domestic. . . .	No sewers.
Gloucester City.....	7,209	2	Public.	Sewers.
Hackensack City.....	10,739	3	Public.	Sewers.
Haddon Township.....	2,012	1	Domestic. . . .	No sewers.
Haddonfield Borough.....	2,776	1	Public.	Sewers.
Harrison City.....	11,274	2	Public.	Sewers.
Harrison Township.....	1,569	2	Domestic. . . .	No sewers.
Hightstown Township.....	1,749	4	Public.	No sewers.
Hoboken City.....	64,080	10	Public.	Sewers.
Hopewell Borough (Mer.).....	980	1	Public.	Sewers.
Howell Township.....	3,103	1	Domestic. . . .	No sewers.
Irvington.....	6,375	1	Domestic. . . .	No sewers.
Jersey City.....	219,462	36	Public.	Sewers.
Kearny.....	12,045	2	Public.	Sewers.
Knowlton Township.....	1,210	2	Domestic. . . .	No sewers.
Lambertville.....	4,637	2	Public.	Sewers.
Landis Townshlp.....	1,658	1	Domestic. . . .	No sewers.
Lawrence Township.....	1,555	1	Domestic. . . .	No sewers.
Linwood Borough.....	402	1	Domestic. . . .	No sewers.
Long Branch.....	9,795	5	Public.	Sewers.
Lower Penn's Neck.....	1,424	1	Domestic. . . .	No sewers.
Madison Borough.....	3,754	2	Public.	No sewers.
Manchester Township.....	1,033	1	Domestic. . . .	No sewers.
Mannington.....	1,745	1	Domestic. . . .	No sewers.
Mansfield Township.....	13,24	1	Domestic. . . .	No sewers.
Metuchen.....	1,786	2	Public.	No sewers.
Midland Township.....	1,298	1	Domestic. . . .	No sewers.
Millburn Township.....	2,837	2	Domestic. . . .	No sewers.

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TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TYPHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1903, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER-SUPPLY AND NATURE OF DRAINAGE.—Continued.

NAME OF SANITARY DISTRICT.	Estimated Population.	Number of deaths from typhoid fever.	Water Supply.	Drainage.
Millstone Township	1,509	1	Domestic. ...	No sewers.
Millville City.	10,757	2	Public.	Sewers.
Montclair.	15,555	3	Public.	Sewers.
Montgomery Township.	1,243	1	Domestic. ...	No sewers.
Morristown City.	12,200	2	Public.	No sewers.
Neptune Township.	7,943	1	Domestic. ...	No sewers.
Newark.	265,394	61	Public.	Sewers.
New Brunswick.	20,426	1	Public.	Sewers.
Northampton Township.	5,168	3	Domestic. ...	No sewers.
North Bergen.	9,213	1	Public.	No sewers.
North Plainfield.	5,468	1	Public.	Sewers.
Nutley Borough. ....	.....	1	Public.	Sewers.
Ocean City.	1,307	1	Public.	Sewers.
Orange City.	25,731	5	Public.	Sewers.
Passaic City.	32,452	5	Public.	Sewers.
Paterson City.	113,217	24	Public.	Sewers.
Pemberton Township.	1,493	1	Domestic. ...	No sewers.
Perth Amboy City.	20,156	2	Public.	Sewers.
Phillipsburg City.	11,975	1	Public.	Sewers.
Pittsgrove Township.	2,092	2	Domestic. ...	No sewers.
Plainfield City.	16,599	7	Public.	Sewers.
Prompton Township.	2,404	1	Domestic. ...	No sewers.
Princeton Borough.	3,899	1	Public.	Sewers.
Prospect Park Borough. ....	.....	1	Public.	Sewers.
Rahway.	7,935	3	Public.	Sewers.
Randolph Township.	2,246	2	Domestic. ...	No sewer.
Raritan Township (Mon.)	1,524	2	Domestic. ...	No sewers.
Readington.	2,670	1	Domestic. ...	No sewers.
Ridgefield Township.	2,612	1	Domestic. ...	No sewers.
Ridgewood Township.	3,298	1	Domestic. ...	No sewers.
Roselle Borough.	1,652	1	Public.	Sewers.
Saddle River Township.	1,954	2	Domestic. ...	No sewers.
Salem City.	5,811	1	Public.	Sewers.
Secaucus Borough.	1,626	2	Domestic. ...	No sewers.
Somerville.	4,843	1	Public.	Sewers.
South Amboy City.	7,016	1	Public.	Sewers.
Southampton Township.	1,904	1	Domestic. ...	No sewers.
South Brunswick.	2,337	1	Domestic. ...	No sewers.
South Orange Township.	1,630	1	Domestic. ...	No sewers.
Stillwater Township.	1,108	1	Domestic. ...	No sewers.
Tewksbury Township.	1,883	1	Domestic. ...	No sewers.
Town of Union.	16,549	2	Public.	Sewers.
Trenton.	76,766	45	Public.	Sewers.
Vernon Township.	1,738	1	Domestic. ...	No sewers.
Verona.	2,139	1	Domestic. ...	No sewers.
Wall Township.	3,212	1	Domestic. ...	No sewers.
Washington Township (Glou.)	1,252	1	Domestic. ...	No sewers.
Washington Township (Mer.)	1,157	1	Domestic. ...	No sewers.
Wayne.	1,985	1	Domestic. ...	No sewers.
West Hoboken City.	26,523	3	Public.	Sewers.
West New York City.	5,425	1	Public.	Sewers.
Woodbridge.	7,631	1	Public.	No sewers.

CHART SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, PER 10,000
POPULATION, FOR TWENTY-FIVE YEARS.

Scarlet Fever.—The number of deaths from scarlet fever during the year was 299. This is a considerable increase in the mortality from this disease, and exceeds that of any year since 1893. The mild type which this disease has maintained during the past ten years is shown by comparing the average annual mortality from this affection, per 10,000 inhabitants, for the first ten years (1879-1888) since the establishment of this bureau with that of the last ten years (1894-1903). During the first of these decades the average was 4.97, and during the latter period it was 1.23, or 75% less than during the former. Discussions concerning the duration of the infectious period in scarlet fever have recently been actively renewed, and those who have maintained that the disease is conveyed by means of the desquamated cuticle have been put upon the defensive, and proof to sustain their opinions has not been satisfactorily presented. On the other hand it has been claimed that the disease is invariably spread through the agency of infectious discharges from the throat, nose and ears, and that patients who are convalescent from scarlet fever may safely be released from isolation restrictions without any reference to the desquamating of the skin, provided that the inflammatory processes affecting the throat, nose and ears have disappeared. These ques-

tions have serious import for health officers, and no one is at present warranted in declaring that they are finally settled. The difficulties and uncertainty which attend the continuance of isolation of scarlet fever patients until all desquamation has ceased, have caused much anxiety to every experienced and conscientious administrative officer, and a more definite guide than desquamation to indicate the termination of infectivity in this disease would be welcomed. No dissent has been expressed concerning the infectiousness of the discharges from the air passages and ears, and frequent syringing of the nose, ears and throat with a disinfectant is believed to have value as a prophylactic measure.

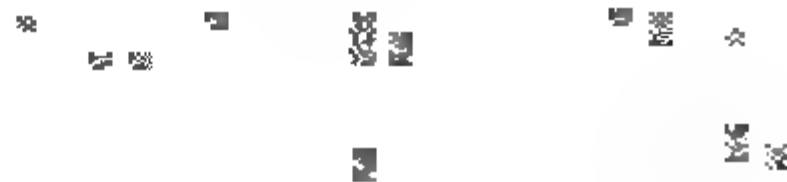
TABLE 34.—DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN NEW JERSEY FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903, COMPARED WITH TOTAL DEATHS.

CHART SHOWING DEATHS FROM SCARLET FEVER IN NEW JERSEY, PER 10,000
POPULATION, FOR TWENTY-FIVE YEARS.

Whooping Cough.—This disease continues to cause an average of about 234 deaths in New Jersey from year to year, and thus far its spread has not been materially affected by sanitary regulations. Its insidious approach renders an early diagnosis difficult, and its fatality is so small, compared with the number of individuals whom it attacks, that the employment of isolation restrictions, even if they were capable of limiting the distribution of the disease, would not be sustained by public sentiment.

It is probable that more or less of the deaths which are certified as having been induced by bronchitis, emphysema, pneumonia, marasmus and cerebral hæmorrhage, are in fact due to whooping cough as a primary cause. Whooping cough not infrequently produces chronic invalidism, sometimes involving disturbances of the nervous system, visual defects and deafness, and it is worthy of the most painstaking efforts on the part of health boards to prevent its spread, but reasonable and effectual measures for its restriction have not yet been pointed out.

CHART SHOWING DEATHS IN NEW JERSEY FROM MEASLES, PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903

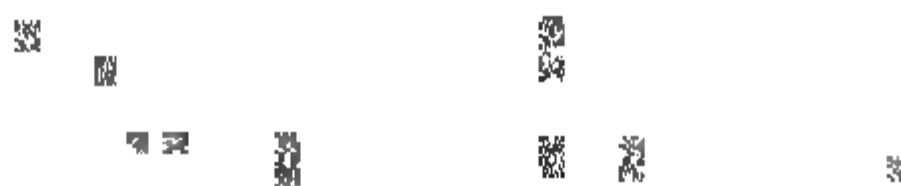


Malarial Fever.—Forty deaths were certified as having been caused by malarial infection. Doubtless there has been more or less confusion in the minds of physicians in past years concerning the differentiation of this class of affections from certain other diseases, and until recently the term "typho-malarial" fever was often used in doubtful cases. In classifying deaths it has uniformly been the custom in this bureau to count all certificates in which the cause of death is stated as having been due to typho-malarial fever, as deaths from typhoid fever.

For the prevention of malaria local boards of health should make and enforce ordinances to require that no rain-water barrel, water-tank, cistern or other receptacle shall be maintained without being tightly screened or so covered that no mosquito can enter it; that no discarded cans or other rubbish capable of holding water shall be allowed to remain uncovered on any premises; that every cesspool or other receptacle for waste liquids shall be tightly screened and covered; that no pools of stagnant water shall be allowed to stand upon the ground surface. Frequent inspections should be made of all

premises, to learn if the regulations to prevent the breeding of mosquitoes are being observed, and prompt prosecution should follow any violations which are discovered.

CHART SHOWING DEATHS FROM MALARIAL AFFECTIONS, PER 10,000 INHABITANTS, IN NEW JERSEY, FOR TWENTY-FIVE YEARS.



Small-Pox.—The extensive epidemic of small-pox which recently prevailed throughout the United States, and which caused 142 deaths in New Jersey in 1901 and 432 deaths in 1902, rapidly subsided as soon as general vaccination was employed, and notwithstanding the fact that the disease reappeared in several localities, it caused only 16 deaths during the year ending December 31, 1903. In the annual reports of this board for the years 1896-1900 a statement was presented from year to year showing the number of unvaccinated children of

school age in the State, and it is there seen that the proportion gradually increased until, in 1899, it reached twenty-five per cent. of the total enrollment. Added to this large number of unvaccinated school children was a still larger proportion of unvaccinated children under six years of age, while many adults had never been vaccinated or had not recently been vaccinated, and, taken altogether, the material for an epidemic of small-pox was very abundant. But conditions are now greatly changed, and it can confidently be said that no extensive outbreak of small-pox is likely to occur in New Jersey for the present, nor until the protection afforded by the wholesale vaccinations which have been recently done shall have become exhausted. But now is the time for health officers and school officers to complete their records, to show, as far as possible, which individuals are still unprotected against small-pox, and by the annual offer of free vaccination to indigent persons, and by requiring with the co-operation of the board of education, that all school children shall be vaccinated and re-vaccinated after five years, to maintain the defences against future exposure to the infection of this disease.

Because of the errors which have so often arisen in the diagnosis of small-pox, it is advisable that chicken-pox shall also be placed on the notifiable list of diseases. This action has been taken in many localities, and it not only aids in the detection of mistakes in diagnosis, but also removes one of the shields employed by a certain class of unprincipled practitioners who are willing to call small-pox by some other name in the hope of obtaining favor at the hands of the patient.

TABLE 37.—SHOWING DEATHS IN NEW JERSEY, FROM SMALL-POX, FOR TWENTY-FIVE YEARS.

YEARS.	Deaths from small-pox.	YEARS.	Deaths from small-pox.	YEARS.	Deaths from small-pox.
1879 .....	..	1887	5	1895	23
1880	15	1888	5	1896	2
1881	254	1889	3	1897 .....	....
1882	367	1890 .....	..	1898 .....	....
1883	54	1891 .....	..	1899 .....	....
1884	7	1892	38	1900	5
1885	2	1893	43	1901	142
1886	4	1894	11	1902	432
				1903	16

Bright's Disease.—The deaths recorded as having been caused by Bright's disease during the past four years have numbered as follows: 1,620 in 1900; 1,246 in 1901; 1,371 in 1902, and 1,686 in 1903.

TABLE 38.—SHOWING NUMBER OF DEATHS FROM BRIGHT'S DISEASE IN NEW JERSEY, IN COUNTIES EXCLUSIVE OF CITIES, AND IN CITIES OF OVER 5,000 INHABITANTS, FOR FOUR YEARS.

NAMES OF COUNTIES AND CITIES.	Estimated population.	Deaths from Bright's Disease.				
	1903.	1900.	1901.	1902.	1903.	
Atlantic County.....	20,676	17	13	14	15	
Atlantic City.....	33,272	28	36	32	34	
Bergen County.....	68,718	27	25	22	31	
Englewood.....	6,745	5	2	5	7	
Hackensack.....	10,739	11	8	3	8	
Burlington County.....	46,739	25	40	28	39	
Burlington.....	7,392	10	9	10	12	
Camden County.....	24,868	13	12	17	29	
Camden.....	79,811	99	64	87	84	
Gloucester City.....	7,209	3	2	5	11	
Cape May County.....	13,408	8	2	7	10	
Cumberland County.....	27,081	13	15	16	22	
Bridgeton.....	14,660	16	11	22	24	
Millville.....	10,757	6	7	5	3	
Essex County.....	21,562	48	17	15	19	
Bloomfield.....	10,613	.....	5	6	1
East Orange.....	23,972	14	11	20	20	
Irvington.....	6,375	.....	1	4	8
Montclair.....	15,555	10	11	5	9	
Newark.....	265,394	280	249	255	308	
Orange.....	25,731	35	19	20	38	
West Orange.....	7,510	.....	7	2	7
Gloucester County.....	32,757	20	17	12	32	
Hudson County.....	12,489	69	39	13	22	
Bayonne.....	36,829	28	16	21	25	
Harrison.....	11,274	5	3	2	7	
Hoboken.....	64,080	55	41	57	78	
Jersey City.....	219,462	188	140	158	179	
Kearny.....	12,045	.....	.....	7	7
Town of Union.....	16,549	11	14	12	19	
West Hoboken.....	26,523	.....	.....	21	14
West New York.....	5,425	.....	.....	4	9
Hunterdon County.....	34,597	17	17	12	22	
Mercer County.....	22,058	15	6	13	9	
Trenton.....	76,766	73	3	54	60	
Middlesex County.....	35,708	20	22	18	20	
New Brunswick.....	20,426	23	18	19	26	
Perth Amboy.....	20,156	18	9	11	9	
South Amboy.....	7,016	.....	2	5	3
Monmouth County.....	70,079	48	42	50	55	
Long Branch.....	9,795	11	13	10	13	
Red Bank.....	5,752	.....	4	2	4
Morris County.....	50,186	34	30	26	44	
Dover.....	6,488	3	4	4	6	
Morristown.....	12,200	14	8	12	8	
Ocean County.....	20,308	17	11	12	14	
Passaic County.....	24,813	17	7	6	11	
Passaic City.....	32,452	10	11	15	12	
Paterson.....	113,217	94	44	60	75	
Salem County.....	19,719	7	14	11	16	
Salem City.....	5,811	7	.....	4	5
Somerset County.....	34,804	31	17	22	17	
North Plainfield.....	5,468	.....	3	.....	4
Sussex County.....	25,061	10	6	8	13	
Union County.....	20,459	10	10	9	15	
Elizabeth.....	56,441	50	48	28	45	
Plainfield.....	16,599	11	14	15	9	
Rahway.....	7,935	14	9	14	12	
Summit.....	5,813	.....	1	4	7
Warren County.....	27,729	13	14	16	17	
Phillipsburg.....	11,973	6	5	4	4	
Totals.....	2,016,797	1,620	1,246	1,371	1,686	

Suicide.—Deaths by suicide in New Jersey numbered 314 for the year ending December 31, 1903, or 15.70 per 100,000 inhabitants. In the previous year the number of deaths by suicide was 271, and in 1901 the number was 265, showing a slight increase during the past three years.

TABLE NO. 39.—DEATHS IN NEW JERSEY FROM SUICIDE, SHOWING MODE OF DEATH AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903.

TABLE 40.—SHOWING NUMBER OF DEATHS BY SUICIDE RECORDED IN NEW JERSEY, BY CITIES, AND BY COUNTIES, EXCLUSIVE OF CITIES, FOR THE YEAR ENDING DECEMBER 31, 1903.

		BIRTH.	
NAME OF PLACE.			
Atlantic City..			
Bergen County..			
Englewood..			
Burlington County.			
Burlington City			
Camden County....			
Camden City..			
Cape May County...			
Cumberland County			
Essex County....			
Bloomfield....			
East Orange...			
Irvington...			
Montclair....			
Newark...			
Orange.			
West Orange.			
Gloucester County.			
Hudson County.			
Bayonne....			
Harrison.			
Hoboken.....			
Jersey City.			
Kearny....			
Town of Union.			
West Hoboken....			
Hunterdon County...			
Mercer County....			
Trenton...			
Middlesex County...			
Perth Amboy....			
South Amboy...			
Monmouth County...			
Long Branch....			
Red Bank....			
Morris County....			
Morristown....			
Passaic County....			
Passaic City.			
Paterson.			
Somerset County....			
Sussex County.			
Union County....			
Elizabeth.			
Plainfield.			
Summit..			
Warren County...			
Total.....			

fectious diseases has appeared, the local executive officer should be prepared, and empowered by the health board, to take appropriate action to prevent the spread of the disease. This action will not be the same in all districts, for in built-up localities the risks of communicating the disease are much greater than in rural situations, but under all circumstances there are certain minimum precautions which should be uniformly applied. These are set forth with some minuteness in one of the circulars (98) issued by this board. Every health officer and every sanitary inspector should have a clear understanding of the value and necessity for each measure employed in dealing with the sick, and the local board of health should in each case require of its officers the most considerate and intelligent treatment of these cases.

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TABLE 41.—COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING
THE YEAR ENDING JUNE 30, 1904.

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TABLE 41 --COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING
THE YEAR ENDING JUNE 30, 1904 --Continued.

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TABLE 41.—COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING
THE YEAR ENDING JUNE 30, 1904.—Continued.

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Infectious Diseases of Animals.—Glanders was much less prevalent during the year ending October 31, 1904, than during the previous year, only 87 cases having been reported. These cases were distributed by counties, as follows: Bergen, 3; Essex, 19; Hudson, 51; Passaic, 8; Warren, 5 and Cumberland, 1.

The application which was made to the legislature for an increase of \$3,000.00 in the appropriation for the prevention of the spread of glanders was not allowed, and therefore the following circular letter was sent to the local boards of health of those counties in which the disease has heretofore appeared:

“At the last meeting of the legislature application was made by the State Board of Health for additional funds with which to meet the necessary expenses attendant upon the employment of measures to prevent the introduction of glanders into the State of New Jersey, and to limit the spread of the disease within the State. The application was not allowed, and consequently the board finds itself without funds to deal with this disease. We therefore draw your attention to the necessity of action upon the part of local boards of health to require reports of cases of glanders, and to take the necessary steps to secure the destruction of infected animals and the disinfection of infected stables.”

The health officer of the city of Newark was empowered July 8, 1904, to issue quarantine orders for the isolation of glandered horses, but he reports that no case requiring isolation has thus far been brought to his attention. In Jersey City the action of the local board of health has been prompt in securing the destruction of all infected animals which have been reported, and disinfection of infected stables has been carefully done. The reports show that a number of the horses affected with glanders which were discovered in Jersey City were imported from New York, and it is believed that many of the other cases which occurred in the State were also brought across the ferries by dealers in diseased animals. Renewed application will be made when the legislature meets for funds with which to employ inspectors who will trace up the parties who buy and sell glandered horses, and to furnish evidence which will effectually break up this traffic.

Anthrax appeared during the summer in the previously infected district bordering on Delaware bay, but only sixteen cases of this disease occurred. At the meeting of the State Board of Health held April 19, 1904, the following resolution was adopted:—“No cattle shall be pastured upon Round or Ragged islands in Lower Alloways Creek Township, Salem

County, unless said animals have been recently inoculated with anti-anthrax vaccine, and a certificate of a competent veterinarian shall have been filed in the office of the State Board of Health showing that said inoculation has been performed." Notice of this regulation was sent to all boards of health in the infected locality.

Following is a statement showing the number of cases of infectious diseases of animals reported during the year: Actinomycosis, 4; anthrax, 16; glanders, 87; forage poisoning, 2; erysipelas, 1; rabies, 3; tuberculosis, 4.

Cemeteries.—Chapter two hundred and forty-nine of the laws of 1904 provides that appeals from the action of the local board of health and the local governing body relative to the location or enlargement of cemeteries shall hereafter be made to the board of chosen freeholders of the county in which the site of the proposed cemetery or of the proposed addition thereto is located. Heretofore these appeals have been considered by the State Board of Health, but as the questions presented rarely had any sanitary bearings, and usually involved claims for damage to property, there seemed to be good reason for removing them to one of the courts of the State, where testimony could be taken under oath, and where matters relating to property values could more appropriately be adjudicated. Whether any advantage to the public interests will follow the removal of these cases to the boards of freeholders, time will determine.

Milk and Dairies.—During the past year increased efforts have been made to prevent the sale of adulterated and unwholesome milk. In addition to the measures previously employed to detect the presence of preservatives and excess of water in milk, detailed examinations of over three hundred dairy premises have been made, and the defects observed in the care of the cattle; the water supply for the cows and for washing cans, bottles and utensils; the collection, cooling and delivery of the milk, have all been brought to the attention of the producers of the milk. In Jersey City, in co-operation with the city board of health, active operations were continued daily during the months of June, July, August and September, to enforce the law against the adulteration of milk, and in

addition to this work inspections were made by the State inspectors of all of the creameries and also of all of the farms from which milk sold in Jersey City is obtained. The records of these inspections show that 286 dairy premises, on which milk is produced for sale in New Jersey, were inspected, and it was found that the cow stables were well lighted and ventilated on 127 premises; that the stables were kept in a cleanly condition on 82 premises; that 800 cubic feet of air space was allowed each cow in 96 of these stables; that pure water was provided on 165 premises; that the milk was cooled to 50° F. or below on 103 of the farms; that in 89 cases vats were used for cooling the milk; that cans and utensils used on 217 premises were washed in boiling water; that the milk from 270 of these dairies was sold at a creamery, and that the milk was cooled by placing the cans in running water on 151 premises.

The routine service rendered by the State inspectors of food and drugs in preventing the sale of adulterated milk consists in the repeated collection of samples of milk from all dealers, so far as possible, in the districts to which the inspectors are assigned. These samples are immediately iced and forwarded by express to the State laboratory of hygiene, and there they are examined. If preservatives are found, or if water has been added, the facts are sent to the office of the Attorney-General and suits for the penalty are brought in all cases where the evidence is believed to be sufficient to secure a conviction. The examination of dairies is an entirely different duty, and its judicious performance requires a much greater degree of skill and good judgment. The first step in the inspection of dairy premises, as thus far practised, is to obtain, through the local board of health, a list of all the milk dealers who sell milk in a particular municipality, together with a statement of the sources from which each dealer obtains his supply. An inspector of the State Board of Health, accompanied by a local officer whenever this arrangement can be effected, then visits each farm from which the milk is taken, and his observations are recorded upon blanks provided for the purpose. He takes a sample of the water used on each farm, unless inspection shows that there is no reason to suspect pollution, as in the case of public supplies and wells and springs which are located at distant points from buildings and apparent sources of con-

the addition of water are at present regarded as of little consequence compared with the paramount considerations involving the health and life of consumers. There has heretofore been practically no control over dairy premises, and far too many of them are still conducted as if the cleanliness of milk was of no consequence whatever. It is not regarded as improper by many milkers to strain out cow dung and hair which by chance falls into the milk, and many milkers habitually wet their dirty hands with milk before they begin to draw the milk, permitting the discolored washings to fall into the pail. To employ help of a higher degree of intelligence and to introduce aseptic methods into all of the departments of the milk business costs more money than to go on in the heedless manner which at present prevails, and financial questions are thus introduced into the movement for a reformation in the milk business. Following is the form of an ordinance which has been employed in one of the cities of the State to exclude unwholesome milk:

“Any persons engaged in the sale of milk in.....shall furnish forthwith, when requested so to do by the board of health of said city, or any inspector or officer thereof, a true statement, in writing, upon blanks to be supplied by said board of health, setting forth the locality from which said milk was procured, and also a full and complete list of the persons from whom said milk was purchased, and the names and addresses of all persons and customers to whom such person or persons selling said milk in said City shall supply or deliver the same. Said written statement shall be signed by the person or persons selling said milk in said City. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of one hundred dollars.

It shall be the duty of any persons or person engaged in the sale of milk into notify the board of health of said City immediately upon changing the source of supply of the milk sold by them. Such notices shall be in writing and they shall state the name or names of persons supplying said milk and the locality from which such milk is procured. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.”

Food and Drugs.—The inspection, collection and examination of samples of food and drugs has now become well systematized in New Jersey, and every employee in this department is highly skilled in the duties to which he is assigned. The lines of work to which attention has been mainly devoted during the past year are those which have been found by experience to be the most successful in preventing the sale of adulterated articles, and during the summer the efforts of the inspectors were especially applied toward securing improvement in the

milk supply, particularly to detect the addition of preservatives and to prevent the use of polluted water for the washing of milk cans, bottles and utensils. The report of the director of the State laboratory of hygiene and of the chief and assistant inspectors which appear further on in this volume, give detailed statements concerning some of the services which have been rendered.

Attention is drawn to the remarks of the director of the State laboratory concerning the advantages which would attend the erection of a new building to be used exclusively for laboratory purposes. The continuous increase in the number of specimens sent to the laboratory for examination, and the consequent necessity for more room and for suitable accommodation for the animals required for biological examinations, in cases of suspected rabies and certain other infectious diseases, together with the need of additional facilities for testing the efficiency of animal products which are employed for remedial purposes, renders it advisable that a building adapted to the purposes indicated should be provided.

The number of suits instituted during the year for violation of the act to prevent the sale of adulterated food and drugs, was 128, of which 105 were for the sale of unwholesome or adulterated milk; 7 for adulterated food other than milk, and 16 were for adulterated drugs. The total amount of fines collected and transmitted to the State treasurer was \$4,308.30.

The total number of specimens of food and drugs examined in the laboratory during the year has been as follows: Milk, 1,611; water, 184; other food, 1,050, drugs, 927; total, 3,772. During the year ending October 31, 1903, the number examined was 3,526, showing an increase of 246. In the bacteriological department the total number of specimens examined was 6,730, an increase of 1,171 over the number examined in 1903.

REPORT OF THE BOARD OF HEALTH.

TABLE 42.—SHOWING THE NUMBER OF SUITS INSTITUTED FOR VIOLATION OF THE ACT TO PREVENT THE SALE OF ADULTERATED FOOD AND DRUGS, TOGETHER WITH THE DATE OF ANALYSIS OF SAMPLE AND THE DISPOSITION OF EACH CASE, FOR THE YEAR ENDING OCTOBER 31, 1904.

Date of analysis		Number of sample.	Name of article.	Termination of each case.
Nov.	4, 1903..	A-1600 ...	Milk.	Convicted, fine paid.
Nov.	4, 1903..	B-1593 ...	Milk.	Convicted, fine not paid.
Nov.	4, 1903..	B-1591 ...	Milk.	Convicted, fine not paid.
Nov.	7, 1903..	A-1630 ...	Milk.	Convicted, fine paid.
Nov.	14, 1903.	A-1636 ...	Milk.	
Nov.	7, 1903..	A-1623 ...	Tr. Iodine.	
Nov.	17, 1903..	A-1619 ...	Tr. Iodine.	Convicted, fine paid.
Nov.	17, 1903..	B-1619 ...	Tr. Iodine.	Convicted, fine paid.
Nov.	17, 1903..	B-1606.	Tr. Iodine.	Convicted, fine paid.
Nov.	17, 1903..	C-1884.	Olive oil.	Case dismissed.
Nov.	17, 1903..	A-1637 ...	Olive oil.	Convicted, fine paid.
Nov.	17, 1903..	B-1607 ...	Olive oil.	
Nov.	19, 1903..	D-1302 ...	Milk.	Convicted, fine not paid.
Nov.	20, 1903..	B-1634 ...	Milk.	Convicted, fine paid.
Nov.	20, 1903..	B-1635 ...	Milk.	Convicted, fine not paid.
Nov.	21, 1903..	A-1615 ...	Milk.	
Nov.	23, 1903..	C-1921.	Tr. Iodine.	Convicted, fine paid.
Nov.	23, 1903..	A-1641 ...	Tr. Iodine.	Convicted, fine paid.
Nov.	23, 1903..	B-1628 ...	Cream of tartar...	Convicted, fine paid.
Dec.	8, 1903..	D-1352 ...	Milk.	Appealed.
Dec.	8, 1903..	A-1692 ...	Milk.	Convicted, fine paid.
Dec.	8, 1903..	A-1691 ...	Milk.	Convicted, fine paid.
Dec.	31, 1903..	C-1960.	Milk.	Convicted, fine paid.
Jan.	22, 1904..	A-1718 ...	Tr. Opium.	Convicted, fine paid.
Feb.	2, 1904..	C-2008.	Tr. Iodine.	Convicted, fine paid.
Feb.	2, 1904..	C-2045.	Tr. Opium.	Convicted, fine paid.
Feb.	2, 1904..	C-2040.	Tr. Opium.	Convicted, fine paid.
Feb.	8, 1904.	C-2069.	Cider vinegar	
Feb.	9, 1904..	C-2074.	Oleomargarine ...	
Feb.	10, 1904..	A-1761 ...	Milk.	Convicted, fine paid.
Feb.	10, 1904..	A-1762 ...	Milk.	Convicted, fine paid.
Feb.	10, 1904..	A-1763.	Milk.	Convicted, fine paid.
Feb.	22, 1904..	D-1492.	Tr. Iodine.	Convicted, fine paid.
Feb.	29, 1904..	C-3240.	Milk.	
Mar.	5, 1904..	C-3245.	Mcllasses.	
Mar.	7, 1904..	A-1828 ...	Tr. Opium.	Convicted, fine paid.
Mar.	11, 1904..	C-3253.	Milk.	
Mar.	25, 1904..	D-1533 ...	Milk.	Convicted. *
Mar.	25, 1904..	A-1855 ...	Milk.	Convicted, fine paid.
Mar.	30, 1904..	C-3324.	Milk.	Defendant acquitted.
Apr.	6, 1904..	C-3331.	Milk.	Convicted, fine paid.
Apr.	7, 1904..	C-3334.	Milk.	Convicted, fine paid.
Apr.	8, 1904..	C-3341.	Milk.	Convicted. *
Apr.	13, 1904..	A-1911 ...	Milk.	Convicted, fine paid.
Apr.	13, 1904..	A-1909 ...	Milk.	Convicted, fine paid.
April	15, 1904..	A-1920 ...	Milk.	Convicted, fine paid.

*Execution issued.

REPORT OF THE BOARD OF HEALTH.

TABLE 42.—SHOWING THE NUMBER OF SUITS INSTITUTED FOR VIOLATION OF THE ACT TO PREVENT THE SALE OF ADULTERATED FOOD AND DRUGS, TOGETHER WITH THE DATE OF ANALYSIS OF SAMPLE AND THE DISPOSITION OF EACH CASE, FOR THE YEAR ENDING OCTOBER 31, 1904.

Date of analysis		Number of sample.	Name of article.	Termination of each case.
Aug.	5, 1904..	A-3194 ...	Milk.	Convicted, fine paid.
Aug.	5, 1904..	D-2051 ...	Milk.	Convicted, fine paid.
Aug.	6, 1904..	C-4122.	Milk.	Convicted.*
Aug.	9, 1904..	C-4153.	Milk.	Convicted, fine paid.
Aug.	9, 1904..	A-3222 ...	Milk.	Convicted.*
Aug.	9, 1904..	A-3221 ...	Milk.	Convicted.*
Aug.	9, 1904..	A-3208 ...	Milk.	Convicted.*
Aug.	11, 1904..	A-3232 ...	Milk.	Convicted, fine paid.
Aug.	11, 1904..	A-3231 ...	Milk.	Convicted, fine paid.
Aug.	11, 1904..	A-3229 ...	Milk.	Convicted, fine paid.
Aug.	11, 1904..	A-3228 ...	Milk.	Convicted, fine paid.
Aug.	12, 1904..	A-3226 ...	Milk.	Convicted.*
Aug.	24, 1904..	A-3258 ...	Milk.	Convicted.*
Aug.	26, 1904..	D-2088 ...	Cream.	Appealed.
Aug.	26, 1904..	D-2087 ...	Milk.	Appealed.
Aug.	30, 1904..	B-3032 ...	Milk.	Convicted, fine paid.
Aug.	30, 1904..	B-3031 ...	Milk.	Pending.
Aug.	30, 1904..	B-3029 ..	Milk.	Pending.
Aug.	30, 1904..	B-3027 ...	Milk.	Pending.
Aug.	30, 1904..	B-3026 ...	Milk.	Pending.
Sept.	6, 1904..	B-3052 ...	Milk.	Convicted.*
Sept.	9, 1904..	B-3074 ...	Milk.	Defendant acquitted.
Sept.	9, 1904..	B-3077 ...	Milk.	Convicted.*
Sept.	9, 1904..	B-3082 ...	Milk.	Jury disagreed.
Sept.	9, 1904..	C-4292.	Milk.	Pending.
Sept.	10, 1904..	C-4296.	Milk.	Convicted, fine paid.
Sept.	13, 1904..	B-3108 ...	Milk.	Pending.
Sept.	14, 1904..	B-3111 ...	Milk.	Pending.
Sept.	29, 1904..	C-4374.	Milk.	Pending.
Sept.	29, 1904..	C-4378.	Milk.	Pending.
Oct.	11, 1904..	C-4436.	Milk.	Pending.
Oct.	11, 1904..	B-3175 ...	Milk.	Pending.
Oct.	18, 1904..	C-4465.	Milk.	Pending.
Oct.	19, 1904..	C-4468.	Milk.	Pending.

*Execution issued.

Sanitary Inspection Service.—The first examination to provide an eligible list from which appointments of local sanitary inspectors and health officers might be made, as provided for in chapter 215 of the laws of 1903, was held in the office of the board of health of the city of Newark, June 1, 1904, and ten candidates for a license certificate appeared. The sanitary examiners, five in number, who were appointed under the law

quarantine at the port of Perth Amboy should be assumed by the Federal Government. Pursuant to this request an officer of the Public Health and Marine Hospital Service was assigned to duty in the port of Perth Amboy, July 19, 1904.

Nuisances.—A much clearer understanding than formerly prevailed has been reached in relation to the extent to which nuisances shall be attacked under the provisions of the health laws, and limits have been established which will hereafter defend well informed health officers from endeavoring to improve conditions which affect property values only, and which cannot be shown to have any unfavorable influence upon the public health. Noise nuisances which have been brought to the attention of the court by individuals whose business is damaged, have been abated without bringing into the consideration any of the questions relating to health. And this is by far the better way, for it can rarely be shown to the satisfaction of the courts that the crowing of roosters, stamping of horses, buzzing of automobiles, roar of trolleys, etc., will cause sickness, and it is inadvisable that health boards shall undertake the abatement of any nuisance unless it can be unmistakably proven to be prejudicial to health.

New Legislation.—Several acts having relation to the public health were passed by the legislature during the session of 1904, some of which are as follows:

Chapter 76 is intended to regulate the sale of cocaine and prevent its use as an intoxicant.

Chapter 99 provides that a bill may be filed in the Court of Chancery for an injunction to prevent the keeping of cows in a crowded or unhealthy place, and to prevent the sale of unwholesome milk.

Chapter 119 amends the general health law by adding to the duties previously required of local boards of health the further requirement that they shall remove or abate the nuisance caused by the presence of water in which mosquito larvæ breed. This act, as now amended, requires that when the water in which mosquito larvæ breed is found by the local boards of health to exist within their jurisdictions, the owner of the property shall be notified to remove or abate the same at his own expense, but if the owner cannot be found or if he fails or refuses to take the required action, then the local board

ATLANTIC COUNTY—*Continued.*

Smallpox.—Would report that there have been eight cases of this disease reported at this office during the past year, with no deaths; would also state that all the necessary precautions have been taken, each and every occupant of the premises infected were immediately vaccinated by the physician of the board, and in addition to this a strict quarantine, both day and night, was observed of the premises where this disease occurred. The isolation hospital at present in use by the city is well suited in most ways, and furnishes a very satisfactory, as well as secluded refuge for persons suffering with smallpox.

Typhoid Fever.—This disease has been a little more prevalent than during the previous year, there having been reported 54 cases, with 8 deaths resulting. This disease has been general, not limited to any locality of the city.

Scarlet Fever.—There have been 141 cases of scarlet fever during the year, as compared with 131 cases reported during the previous year. Only one of these cases proved fatal.

Diphtheria.—During the year 80 cases of diphtheria were reported, 12 of which resulted fatally. The disease was not centered in any one part of the city.

Measles.—There have been reported 126 cases of measles, an increase as compared with last year, but with no deaths from same.

Chicken-pox.—There have been 26 cases of chicken-pox reported at this office during the year.

The following is a table of contagious diseases reported by month, during the past year, with deaths resulting therefrom:

	Diphtheria.		Scarlet.		Typhoid.		Small-Pox.		Measles.		Chicken-Pox.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1903.												
October.....	5	0	13	0	3	0	0	0	0	0	0	0
November.....	4	0	7	0	4	0	0	0	1	0	0	0
December.....	13	1	11	1	2	0	2	0	1	0	2	0
1904.												
January.....	12	0	41	0	3	1	3	0	3	0	3	0
February.....	6	1	23	0	6	1	2	0	10	0	7	0
March.....	15	4	15	0	2	0	0	0	16	0	4	0
April.....	5	0	15	0	4	2	0	0	14	0	2	0
May.....	1	0	7	0	3	1	0	0	40	0	2	0
June.....	2	1	3	0	0	0	0	0	33	0	6	0
July.....	8	3	1	0	9	1	0	0	6	0	0	0
August.....	5	1	1	0	12	3	0	0	1	0	0	0
September.....	4	1	4	0	6	0	1	0	1	0	0	0
Totals.....	80	12	141	1	54	8	8	0	126	0	26	0

88 REPORT OF THE BOARD OF HEALTH.

BERGEN COUNTY—*Continued.*

Smith, Barney Vandenberg, John J. Storms; Peter Van Winkle, Clerk, Ridgewood.

Hackensack City.—Members and Officers—Lemuel Lozier, President; Robert G. Wool, Wm. P. Ammerman, Samuel T. Crissy, Fred. Staib, Tunis A. Haring; C. T. Demarest, Secretary; Robert Ballagh, Inspector; Fred. S. Hallett, M. D., Inspector.

Harrington Township.—Members and Officers—John Blauvelt, President, Harrington Park; David A. Ward, Harrington Park; Samuel Dackerman, Northvale; Lewis B. Parcells, M. D., Closter; Wm. J. Demarest, Secretary, Norwood.

Hasbrouck Heights Borough.—Members and Officers—Frank S. Flagg, President; A. K. Goodrich, Jas. S. Valentine; John G. Martin, Secretary; S. V. Morris, M. D., Health Inspector; Luther Shafer, Attorney.

Haworth Borough.—Members and Officers—Henry E. Crocker, President; W. T. McCulloch, Mayor; M. Dieck, C. A. Park, A. C. Lobeck; E. H. Schuyler, Secretary.

Hohokus Township.—Members and Officers—Chas. E. May, Ramseys; Peter Z. May, Ramseys; Jas. H. Carlough, Mahwah; John Ackerman, Secretary, Wyckoff; Jas. W. Collins, M. D., Inspector, Ramseys.

Leonia Borough.—Members and Officers—Henry R. Goesser, President; Arthur D. Bogert, J. T. Wyckoff, M. D.; H. M. Thompson, Secretary; A. P. Hurd, John Boyd, Inspectors.

Lodi Borough.—Members and Officers—Anthony DeWard, President; Peter DeVries, Josiah DeSchutter; Jacob Van Hook, Secretary; Henry H. Brevoort, M. D., Inspector.

Lodi Township.—Members and Officers—Chas. Foose, President, Wood Ridge; Peter Strunk, Wood Ridge; John Switz, Little Ferry; Julius Pries, Secretary, Wood Ridge.

Maywood Borough.—Members and Officers—C. E. Breckenridge, H. Heck, J. R. Davies, G. M. Fetzner; Wm. Widnall, Jr., Secretary.

Midland Township.—Members and Officers—John G. Zabriskie, Chairman, Rochelle Park; Jacob H. Blauvelt, Ridgewood; Otto Weisgerber, Rochelle Park; John D. Bogert, Secretary, Ridgewood; Frank Freeland, M. D., Inspector, Maywood; Clarence Mabie, Counsellor, Hackensack.

BERGEN COUNTY—*Continued.*

Isaac Onderdonk, Jas. E. Ackerman, Henry Waterbury; Nicholas Cleveland, Secretary.

Woodcliff Borough.—Members and Officers—S. Burrage, President, Woodcliff; John H. Wortendyke, Woodcliff; David H. Tice, Allendale; Peter E. Van Riper, Allendale; Wm. English, Woodcliff; G. J. Wortendyke, Secretary, Allendale.

Wood Ridge Borough.—Members and Officers—Jos. H. Schmitt, President; Frank Ball, Herman H. Hofener; Frank W. Lehman, Secretary; Chas. R. Ruegger, Inspector.

BURLINGTON COUNTY.

Bass River Township.—Members and Officers—R. F. Garrison, M. D., President; S. B. Allen, B. F. Headley, John W. Bowers; W. D. Cramer, Secretary. All of New Gretna.

Beverly City.—Members and Officers—R. P. Haines, President; J. C. Allen, J. J. Currie, M. D., Chas. Parsons, Jr., Geo. Smith; B. F. Soby, M. D., Secretary; C. F. Richardson, Inspector.

Beverly Township.—Members and Officers—Frank H. Story, Delanco; Wm. T. Bagg, Beverly; H. N. Perkins, Beverly; H. K. Weiler, M. D., Delanco; Jos. B. Carter, Secretary, Delanco.

Communicable diseases have been reported by physicians, and a record of them kept by the secretary. A house to house inspection is made annually early in the summer. All objectionable matter is required to be put outside, which is removed at the expense of the board of health. After which, a collection of such matter is made twice each month. Garbage is collected twice each week. A record is kept of births, marriages and deaths. No fines have ever been imposed for violation of health ordinances, as the public seems inclined to aid the board in its work.

Bordentown City.—Members and Officers—C. D. Mendenhall, M. D., President; Samuel E. Burr, Edwin L. Thompson, L. D. Tebo, M. D., S. R. Magee, D. R. Brown; Wm. H. Shipps, M. D., Secretary; H. J. Marran, Inspector.

CAMDEN COUNTY.

Camden City.—Members and Officers—Reuben H. Gaskill, President; M. F. Middleton, M. D., E. W. Collins, M. D., H. H. Davis, M. D., H. H. Sherk, M. D., S. G. Bushey, M. D., M. K. Mines, M. D.; Eugene B. Roberts, Secretary; M. F. Ivins, Treasurer; Thos. P. Curley, Solicitor; J. T. Leavitt, M. D., Health Officer; H. B. Francis, Plumbing Inspector; Jos. A. Starr, Nuisance Inspector; J. O. George, D. V. S., Meat Inspector; G. H. Robinson, Assistant Inspector; Lewis P. Munion, Disinfector.

The secretary of the board reports as follows:

“About 5,000 feet of new sewers were constructed during the year, mostly in the outlying districts which were annexed to Camden about five years ago. In the city proper nearly all the streets are supplied with sewers, and nearly every house is connected directly and separately to the sewer. There has been no extension to our water supply system during the year.

Fifteen meetings were held during the year.

Contagious diseases reported during the year ending October 1, 1904:

	Cases.	Deaths.
Typhoid fever	34	3
Scarlet fever	235	14
Diphtheria	212	31
Mem. Croup	29	15
Smallpox	47	13
Tuberculosis	30	19
	<hr/>	<hr/>
Totals	587	95

During the year 1,176 nuisances were reported, and were given immediate attention, and without exception were abated.

One of the needs of this city is a general municipal hospital for the care of all patients of a contagious or infectious nature, as at the present time we only have facilities for small-pox cases, and none for diphtheria or scarlet fever, but hope that the day is not far distant when such a movement will be brought about, as the increase in population and improvements made demand that such an institution be established.”

Centre Township.—Members and Officers—Harry B. Wolohon, President, Magnolia; Howard M. Haines, Magnolia; Wm. F. Miller, Mt. Ephraim; John H. Jackson, Secretary, Magnolia; Leslie C. Lyon, M. D., Inspector, Magnolia.

CAMDEN COUNTY—*Continued.*

Wood Lynne Borough.—Members and Officers—Chas. H. Wagner, President and Acting Secretary; Lemuel E. Ware, R. I. Haines, M. D.; Jos. Wood, Inspector.

CAPE MAY COUNTY.

Cape May City.—Members and Officers—Alonzo Leach, M. D., President; Albert B. Little, Lafayette M. Hall, Geo. L. Lovett, Robert S. Hand; V. M. D. Marcy, M. D., Secretary.

Holly Beach Borough.—Members and Officers—Samuel K. Spencer, President; Lorenzo C. Johnson, Wm. A. Shaw, Geo. B. M. Adams, M. D.; E. H. Randolph, Secretary; Eben Tenney, Inspector.

Lower Township.—Members and Officers—Geo. Dickinson, President, Erma; Aaron Woolson, Fishing Creek; Daniel Schellenger, Erma; W. A. Lake, M. D., Erma; J. P. MacKissic, Secretary, Cape May City.

Middle Township.—Members and Officers—Luther T. Garretson, Cape May Court House; J. Morgan Dix, M. D., Cape May Court House; Luther M. Swain, Swainton; V. N. Erricson, Dias Creek; Stillwell H. Townsend, Clerk, Cape May Court House.

Upper Township.—Members and Officers—Harry Young, Beesley's Point; Washington Van Gilder, Petersburg; Jas. G. Stille, Tuckahoe; Jesse T. Young, Secretary, Beesley's Point; R. F. Smith, Registrar, Marmora; Randolph Marshall, M. D., Inspector, Tuckahoe.

West Cape May Borough.—Members and Officers—Thomas Hughes, President; John Hughes, Samuel Taylor, Jacob Smallwood; A. G. Stevens, M. D., Secretary.

Wildwood Borough.—Members and Officers—Frank Shepard, James M. Slaughter, M. D., John N. Reeve; Wm. R. Cills, Secretary; W. H. Washburn, Inspector.

Woodbine Borough.—Members and Officers—Wm. Eisenberg, President; S. Kelinson, Jacob S. Levin; Eugene J. Asnis, M. D., Inspector; Morris Subber, Secretary.

CUMBERLAND COUNTY—*Continued.*

and when in operation will greatly relieve existing unhealthy conditions. No extensions of water works have been made this year."

Stow Creek Township.—Members and Officers—J. B. Seagraves, President, Bridgeton; Lewis Willis, Bridgeton; Chas. D. Fogg, Bridgeton; R. A. Fogg, Secretary, Shiloh.

Vineland Borough.—Members and Officers—J. H. Dawler, Jr., President; A. Laricks, E. A. Pierce, J. C. Schramm; S. C. Slade, Secretary; N. P. Marvel, Sanitary Inspector; R. H. Garrison, Plumbing Inspector; H. C. Bartlett, Counselor.

ESSEX COUNTY.

Bloomfield Town.—Members and Officers—E. M. Ward, M. D., President; Jas. H. Moore, Jas. J. Thompson, Allen Andrews, Wm. A. Ritscher, Jr.; Wm. L. Johnson, Secretary.

The secretary reports as follows:

During the year the board and officers have been very active in the performance of their duties. A large number of nuisances have been abated, and at the present time our district is in excellent sanitary condition. Many property owners have been ordered by the board to clean out and fill closet vaults and cesspools, and to make sewer connection; all such orders have been promptly complied with, which has greatly improved our sanitary condition. Property owners have also been compelled to fill up low, swampy ground in different parts of our district; 94 house sewer connections were made during the year; 18 cases of scarlet fever reported, 4 deaths; 7 cases of diphtheria reported, 2 deaths; 4 cases of typhoid reported; 1 case of small-pox.

The following ordinance was adopted:

The local Board of Health of the Town of Bloomfield, in the County of Essex, do ordain as follows:

Section 1. That the carrying or conveying in receptacles, carts or vehicles of any description whatever, through the alleys, streets or highways of the town of Bloomfield, any animal flesh, fat, carrion or putrid meat at any other time and in any other manner than is hereinafter specified, is hereby defined and declared to be and does constitute a nuisance.

Section 2. And any person or persons or corporation are prohibited and forbidden in the Town of Bloomfield, to carry or convey in receptacles,

ESSEX COUNTY—*Continued.*

carts or vehicles of any description whatever, any refuse or animal flesh, fat, carrion or putrid meat, except it be between the hours of 5 and 7 o'clock A. M., from the first day of June to the first day of October, and between the hours of 5 and 8 o'clock A. M., from the first day of October to the first day of June in each year.

Section 3. No receptacle, cart or vehicle of any description whatever used for the purposes mentioned in the two preceding sections of this ordinance shall without necessity therefor stand or remain, nor shall a needless number gather before or near any building, place of business, or other premises; nor shall the person using said receptacle, cart or vehicle occupy and unreasonable length of time in loading or unloading, or passing along any alley, street or highway of said Town of Bloomfield. And when not in use, all such receptacles, carts or vehicles and all implements used in connection therewith shall be stored and kept in some place where no needless offense shall be given to any of the inhabitants of said town.

Section 4. That all receptacles, carts or vehicles mentioned in the three foregoing sections in which any substance in said sections referred to may be or be carried shall be strong, tight, and the sides shall be so high above the load or contents that no part of such contents or load shall fall, leak or spill therefrom. And every such receptacle, cart or vehicle shall be adequately and tightly covered.

Section 5. That any person, persons or corporation violating any of the provisions of this ordinance shall forfeit and pay a penalty of ten dollars.

Ordinance adopted August 18, 1904.

E. M. WARD, President.

Attest: WM. L. JOHNSON, Secretary.

Caldwell Borough.—Members and Officers—Dr. David M. Gardner, President; Dr. E. E. Peck, W. W. Wright, Lambert Speer; Isaac E. Baldwin, Secretary.

East Orange City.—Members and Officers—Eugene M. Brewster, President; Harvey Mott, Warren S. Furman, Chas. M. Matthews, Roger H. Butterworth; Thomas N. Gray, M. D., Secretary; Wm. T. Bowman, Inspector.

Essex Fells Borough.—Members and Officers—Walter Brown, President; C. E. Leach, W. Seaman Scott, Jas. A. Speer; F. Byrne Ivy, Clerk.

Irvington Town.—Members and Officers—Joseph Clickenger, President; Jonah Hardgrove, Herman Fisher, Hugo Winkler, Chas. Bougas; Edwin Berry, Secretary.

Montclair City.—Members and Officers—Chas. D. Thompson, President;

ESSEX COUNTY—*Continued.*

less sanitary district. One thousand and seventy-three (1,073) premises were inspected; of these four hundred and twenty-five (425) were found to be in good sanitary condition. The owners of one hundred and eighty-seven (187) premises were ordered to connect their houses with the sewer; the owners of two hundred and ninety-four (294) premises, where partial sewer connection had been made, were ordered to establish closets and to abandon the privy vaults. Minor defects found on the other premises were ordered abated.

We find a great improvement in the desire of the general public to comply with the sanitary laws, and in many instances additional financial burdens are incurred that the necessary improvements may be made. We keep a record of all inspections made.

We have four dairy premises and they are frequently inspected.

We have one hospital in Orange, Memorial Hospital, corner Essex avenue and Henry street. A second hospital is contemplated. It will be in charge of Rev. F. Victor Romanelli, pastor of the Italian Roman Catholic Church, and will be on the corner of Center and Hurlbut streets.

Fifteen (15) suits were instituted during the year. In each case judgment for the Board was obtained. The penalties collected in four suits was \$45. The other eleven the penalty (\$25.00) was refunded on making connections. Eight of the eleven premises have since been connected.

The Board held twelve meetings during the year.

South Orange Township.—Members and Officers—H. Stacy Smith, Wm. H. Knox, Wm. H. Kemp, C. A. Cross, A. Moorey, W. W. Heberton, M. D., Thomas C. Baker, Secretary; Joseph H. Osborn, Clerk.

Vailsburgh Borough.—Members and Officers—Edward A. Zusi, President; John V. Diefenthaler, John F. Murphy, Wm. T. Duhuert, Peter Loehnerberg, P. B. Davenport, M. D., Wm. Billington, Secretary; Robert A. Braitsch, Sanitary Inspector.

West Caldwell Borough.—No organized Board of Health. Clifton C. Francisco, Borough Clerk.

West Orange Town.—Members and Officers—Jos. B. F. Grady, President; Jos. Fleming, Ditlow Schroll, Jr., Secretary; Benj. L. Williams, Registrar; Jas. M. Maghee, M. D., Inspector.

GLOUCESTER COUNTY.

Deptford Township.—Members and Officers—Wm. A. Allen, Woodbury; Jos. Moblitts, Wenonah; Benj. Hains, Westville; H. H. Clark, Woodbury; Carroll C. Headley, Secretary, Westville.

East Greenwich Township.—Members and Officers—John Heritage, Mickleton; David Brown, Swedesboro; Daniel Packer, Mt. Royal; J. C. Dauson, Clerk, Mickleton.

Elk Township.—Members and Officers—Rulof Knisell, President, Aura; Franklin Homan, Glassboro; Thos. Hann, Ewan; Samuel L. Seran, Secretary, Aura.

Franklin Township.—Members and Officers—A. A. Smith, M. D., Malaga; A. B. Richman, Malaga; Samuel Lowder, Newfield; Chas. Trinnell, Newfield; W. S. Jones, Franklinville; H. C. Richman, Secretary, Malaga.

Glassboro Township.—Members and Officers—C. S. Heritage, M. D., President; Josiah W. Shute, W. Hyenney, J. T. Abbott, Secretary. All of Glassboro.

Harrison Township.—Members and Officers—Samuel T. Stratton, Mullica Hill; A. S. Murphy, Richwood; S. F. Ashcraft, M. D., Mullica Hill; Eli Heritage, Secretary, Richwood.

Logan Township.—Members and Officers—Isaac Derrickson, President, Repaupo; Hugh McGlincy, Sr., Bridgeport; Wm. F. Justice, Bridgeport; E. T. Oliphant, M. D., Bridgeport; S. B. Platt, Secretary, Bridgeport; S. H. Richards, Attorney, Bridgeport.

Mantua Township.—Members and Officers—W. H. Denn, President, Mantua; Robert Shoemaker; Jos. Lodge, Secretary, Pitman Grove; L. M. Slaughter, M. D., Inspector, Pitman; E. Z. Hilligrove, Inspector, Mantua.

Monroe Township.—Members and Officers—D. S. Champion, Harry White, Jas. M. Tweed, L. M. Halsey, M. D.; Clayton B. Tice, Secretary All of Williamstown.

South Harrison Township.—Members and Officers—Wm. Hudson, Harrisonville; Richard Ridgway, Mullica Hill; Geo. T. Wilkinson, Basset; Samuel T. Stanger, M. D., Harrisonville; David C. Lippincott, Secretary, Harrisonville.

HUDSON COUNTY—*Continued.*

in a state of gradual evolution or change from old methods to new and more modern forms of sanitation. New rules and regulations for our guidance and new ordinances governing, regulating and controlling communicable diseases, nuisances, plumbing and other matters with which we are empowered by law to supervise are being prepared and will soon be adopted and in effect. Every effort will be made to give satisfactory replies, seriatim to the questions presented in the circular, enlarging upon such as are of special interest and importance.

This sanitary district is comprised of the territory embraced within the city boundary lines of Jersey City, and is located in Hudson County; its control is intrusted to a local Board of Health, appointed by the Mayor under the before mentioned act of 1904, composed of ten members, who are well known, experienced and competent gentlemen in the professional and business life of this locality.

The regular meetings of the Board of Health are held on the first and third Mondays of each month, at the City Hall. The office of the department, since October 1, 1904, is located in well lighted and ventilated rooms in the basement of the City Hall (entrance on Mercer street), having been moved from our former quarters, 262 Grove street. The employes, their titles, salaries and term of office are as follows:

Name.	Rank.	Per annum.
Henry Smellie	Health Officer and Secretary.....	\$1,400 00
Dr. Ferdinand N. Sauer.....	Chief Deputy Health Officer.....	1,000 00
John Callary	Plumbing Inspector	1,000 00
Dr. F. C. Robertson.....	Deputy Health Officer	800 00
Dr. George D. White.....	Deputy Health Officer	800 00
Samuel L. Barry.....	Deputy Health Officer	800 00
Hugh F. Gallagher.....	Sanitary Officer	800 00
George E. Francis.....	Sanitary Officer	800 00
Thomas H. Giblin.....	General Clerk and Stenographer...	720 00
Joseph Lennon	Captain Scow No. 1.....	780 00
William H. Dell.....	Captain Scow No. 2.....	780 00

Fred Hering, a patrolman of the Police Department, salary \$1,000, paid by the Police Commissioners, who has been detailed to this board since May 28, 1902, and the present Board of Health have requested the Police Commissioners to continue the detail. (This officer has passed the examination provided for under the provision of the act of 1903, and has been granted a license as Sanitary Inspector of the first-class). Besides attending to the many official duties as executive officer of the department, the Health Officer is required to act as Secretary of the Board; the Chief Deputy is detailed as Superintendent of Contagious Diseases and has charge of fumigations. Deputy Barry is Permit Clerk. Sanitary Officer Gallagher has been appointed an Inspector of Food and Milk, by

HUDSON COUNTY—*Continued.*

Up to October 1, 1904, there have been 2,111 nuisances complained of and inspected, on which 1,807 notices were sent to owners or agents, and 1,039 abatements were secured. Sixty-four vessels have arrived and discharged their cargoes at this port. Seven hundred and thirty-four persons have been vaccinated, and 699 premises have been disinfected; 4,070 dead animals were removed from the streets; 4,182 children have been excluded from the schools because of their having been in contact with communicable diseases, and 3,431 of these have been permitted to return after the time of detention had elapsed, and no other sickness occurred. There have been 238 inspections made and samples taken of milk since July last, when one of our sanitary officers was detailed to this work. He has since been regularly appointed as a State Inspector of Food. This is an important work and somewhat new to this department. It will receive more attention next year. The number of plumbing inspections and tests made were 453, showing a great activity in the building trades. That this work should be well done to prevent disease resulting from defective and improperly constructed plumbing and drainage systems, makes it an important factor in the future good health of tenants and saves expense of repairs to owners."

Kearny Town.—Members and Officers—H. W. Schmale, President; Geo. F. Lightfoot, M. D., Jos. Smith, Nevin Kennedy; M. W. Clouse, M. D.; Health Officer; John B. Thomson, Secretary; David W. Reid, Registrar; Albert Geissler, Inspector.

Town of Union.—No organized Board of Health.

Weehawken Township.—Members and Officers—Dr. Fendricks, President; F. Bergmann, Jr., John M. Hannan, Patrick McGann, T. Minshull; Elijah Blackhurst, Clerk.

West New York Town.—Members and Officers—J. J. Benson, M. D., President; John D. Rover; John H. Everly, Clerk; Rudolf Kuntze, Geo. Theabold, Inspectors.

HUNTERDON COUNTY.

Bethlehem Township.—Members and Officers—Wm. Creveling, Pattenburg; Watson C. Wene, Ludlow; J. M. Hoffman, Bloomsbury; D. J. S. Lindabury, Bloomsbury; C. R. Burwell, Secretary, Valley.

Clinton Borough.—Members and Officers—Wm. Knight, M. D., A. S.

HUNTERDON COUNTY—*Continued.*

Leatherman, M. D., Wm. H. Carpenter, Jas. Mulligan, Geo. A. Hall, Secretary.

Clinton Township.—Members and Officers—Willard E. Berkaw, M. D., President, Annandale; Geo. M. Rinehart, Cokesbury; Matthias J. Wiggins, Annandale; John Shurts, Annandale; Bergen B. Berkaw, Secretary, Annandale.

The secretary of the board reported as follows:

“At a meeting of the board of health of Clinton township, Hunterdon county, held this day, it was directed, owing to the irregular manner in which many certificates of vital statistics or facts were sent to the local registrar of vital statistics, that each clergyman, physician and undertaker who shall officiate respectively at any marriage, birth or death occurring in Clinton township, be notified at once that the act approved February 15, 1888, which requires that all certificates of births, marriages and deaths shall be sent to the local registrar of vital statistics (i. e., the assessor of the township of Clinton), within thirty days after the said birth, marriage or death shall have occurred, will be enforced, and that action will be taken by the board under the act approved March 31, 1887, which provides that those who fail to carry out the provisions of the act approved February 15, 1888, as above stated, are liable to a penalty of \$100 for such failure.

In January, 1904, the board made careful disinfection of a row of tenement houses situate within the district, and belonging to the Central Railroad of New Jersey, owing to some cases of diphtheria occurring among the occupants, Italians. Prompt and efficient aid was extended to the board by officials of the railroad company as soon as notified.

No serious epidemics visited the district during the year, although more than the usual amount of sickness prevailed during the severe winter of 1903-04.”

Delaware Township.—Members and Officers—Nelson Lambert, Sergeantsville; Alton Lake, Sergeantsville; C. B. Johnson, Raven Rock; G. N. Best, M. D., Rose Mont; J. M. Hoppock, Secretary, Sergeantsville.

East Amwell Township.—Members and Officers—E. H. Wilson, John Sloff, Geo. Strumple, P. C. Young, M. D., Edgar Higgins, Secretary, Ringoes.

Franklin Township.—Members and Officers—John E. Anderson, Hiram D. Young, Wm. A. C. Robinson, Q. E. Snyder, M. D., J. L. Agans, Secretary, Pittstown.

HUNTERDON COUNTY—*Continued.*

Frenchtown Borough.—Members and Officers—E. L. Poore, President; F. H. Decker, M. D., Wm. S. Dalrymple, M. T. Bellis, E. W. Moore, Secretary.

Holland Township.—Members and Officers—Walter Burgstreser, President; Herbert Quick, Chas. R. Stull, A. A. Heil, M. D., S. S. Snyder, Secretary; Godfrey Hawk, Registrar. All of Millford.

Junction Borough.—Members and Officers—T. B. Fulper, M. D., President; Robert T. Thomson, M. Frank Fritts, James Splane, Edgar E. Riddle, Secretary.

Kingwood Township.—Members and Officers—John W. Hoff, President, Baptistown; Thomas McAlone, Point Pleasant; Joseph Hann, Barber-town; S. J. Snyder, Secretary, Locktown; Frank S. Grim, M. D., Medical Inspector, Baptistown.

Lambertville City.—Members and Officers—Wm. R. Bowne, President; A. D. Anderson, G. L. Romine, M. D., Harry K. Krammer, Wm. Leary, Edward W. Closson, M. D., Jas. H. Reynolds, Secretary; John L. Coryell, Health Inspector; Chas. Dowdy, City Scavenger.

Readington Township.—Members and Officers—G. G. Conover, President; White House Sta.; P. D. Reese, White House Sta.; J. R. Probasco, Three Bridges; J. C. Voorhees, Secretary, White House Sta.; F. L. Johnson, M. D., Inspector, Stanton.

Tewksbury Township.—Members and Officers—E. B. Conover, Fairmount; Lewis L. Apgar, Mountainville; Jacob J. Neff, New German-town; Hezekiah Philhower, Secretary, Califon; Theo. Miller, M. D., Inspector, Califon.

Union Township.—Members and Officers—Geo. B. Smith, President; J. J. Tharp, Godfrey R. Emery; John Little, Secretary, Jutland; Edgar Allen, M. D., Health Officer.

West Amwell Township.—Members and Officers—Chas. A. Slack, President, Lambertville; William Cane, Lambertville; Chas. E. Holcombe, Mt. Airy; Geo. H. Carr, Secretary, Lambertville; F. W. Larison, M. D., Inspector, Lambertville.

MIDDLESEX COUNTY—*Continued.*

Helmetta Borough.—Members and Officers—Geo. A. Helme, President; A. H. Clemons, J. A. Trimmer, Ira Bowne, R. J. Franklin, Secretary; Edward M. Clemons, Registrar; J. G. Denelsbeck, M. D., Inspector.

Madison Township.—Members and Officers—James Fountain, Browntown; Cornelius Burlin, Browntown; Ambrose Green, Browntown; I. C. Crandall, M. D., Old Bridge; D. H. Brown, Secretary, Browntown; Ed. Barker, Inspector, Cliffwood.

Metuchen Borough.—Members and Officers—A. C. Kelly, President; Frank Orton, W. V. McKenzie, M. D., Chas. Tansig, Secretary; A. C. Ayers, Registrar.

Monroe Township.—Members and Officers—Willard Forman, Jamesburg; C. A. Morse, Prospect Plains; T. M. Appleget, Cranbury; R. R. Vandenberg, Secretary, Prospect Plains.

Piscataway Township.—Members and Officers—Nelson M. Giles, President, Bound Brook; T. H. Brantingham, South Plainfield; B. D. Giles, New Market; M. J. Whitford, M. D., New Market; Geo. S. Bunting, Secretary, New Brunswick.

Raritan Township.—Members and Officers—Theodore Ill, New Brunswick; J. T. Dunham, New Brunswick; Peter Lott, Metuchen; W. V. McKenzie, M. D., Metuchen; Wm. T. Woerner, Clerk, New Brunswick.

Sayreville Township.—Members and Officers—August Rohdes, Wm. Burke, Henry Arleth, J. H. Beekman, M. D., B. F. Samsel, Secretary; Chas. Englehardt, Inspector. All of Sayreville.

South Amboy City.—Members and Officers—J. L. White, M. D., President; E. E. Haines, M. D., Jos. A. Sexton, F. E. DeGraw, Secretary; Chas. S. Buckelew, Inspector.

South Brunswick Township.—Members and Officers—Wm. H. Gulick, President, Kingston; J. H. Stults, Cranbury; J. B. Rowland, Monmouth Junction; Wm. Perkins, Secretary, Princeton.

South River Borough.—Members and Officers—Joseph Miller, Jr., John Van Norden, Jesse Selover, Secretary; F. W. Bissett, M. D., Inspector; J. C. Bowne, Registrar.

MONMOUTH COUNTY—*Continued.*

city of Asbury Park by his energetic advocacy and wise official application of the principles of municipal hygiene in the conduct of the public affairs of the city.

Resolved, That the gratifying distinction which Asbury Park enjoys as a carefully and intelligently guarded resort, where residents and sojourners are effectually protected against the spread of infectious diseases and against nuisances prejudicial to the public health is very largely due to the official guidance and personal example of Mr. Bradley, and to his influence in the creation of a public health conscience in this community.

The total number of deaths in Asbury Park for the year ending October 1st, 1904, was fifty-nine, forty-seven among the resident and twelve among the non-resident population. By estimating the resident population at 4,456, the death rate, including all deaths, is 13.24; by including the resident deaths only, the death rate is 10.55. The principal causes of death, as reported, were: Tuberculosis, 8; pneumonia, 6; nephritis, 5; heart disease, 5; cancer, 4; general debility, or old age, 4; carcinoma, 3; asphyxiation, 2.

The number of births reported for the year, twenty-six, is the lowest ever recorded. During the year the Board brought suit against one of the practicing physicians of this city for failure to report births at which he had professionally attended, and when the papers were served upon him for the suit, he at once made five returns of births, one being five years overdue.

118 REPORT OF THE BOARD OF HEALTH.

MONMOUTH COUNTY—*Continued.*

Table Showing the Number of Deaths Occurring in Asbury Park Among
the Resident and Non-Resident Population Each Year, 1881
Excepted, for the Past Twenty-five Years.

YEARS.	Resident. Population.*	DEATHS.			Resident Death Rate per 1,000 Population.
		Resident	Non- Resident.	Total.	
1880	1,640	19	13	32	11.58
1882	1,784	30	18	48	16.81
1883	1,856	18	12	30	9.69
1884	1,928	24	15	39	12.44
1885	2,000	20	14	34	10.00
1886	2,125	21	23	44	9.88
1887	2,250	20	29	49	8.88
1888	2,375	16	18	34	6.73
1889	2,500	28	28	56	11.20
1890	2,625	32	39	71	12.19
1891	2,750	34	28	62	13.36
1892	2,875	35	24	59	12.17
1893	3,000	30	19	49	10.00
1894	3,380	40	21	61	11.86
1895	3,761	39	17	56	10.36
1896	3,838	34	25	59	8.85
1897	3,916	43	19	62	10.98
1898	3,993	28	13	41	7.01
1899	4,071	37	22	59	9.08
1900	4,148	36	22	58	8.67
1901	4,225	37	21	58	8.76
1902	4,302	32	19	51	7.44
1903	4,379	36	13	49	8.22
1904	4,456	47	12	59	10.55

*Resident population estimated, except for years 1880, 1895 and 1900

LOCAL BOARDS OF HEALTH.

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MONMOUTH COUNTY.—*Continued.*

Table Showing Ages at Death in Asbury Park for Year Ending October 1st, 1904.

AGES.	Males.	Females.	Totals.
Under one year.....	5	..	5
1 to 2 years .....	..	..	..
2 to 5 " .....	..	1	1
5 to 10 " .....	..	..	..
10 to 20 "	3	2	5
20 to 30 " .....	..	2	2
30 to 40 " .....	..	2	2
40 to 50 "	1	2	3
50 to 60 "	8	4	12
60 to 70 "	2	4	6
70 to 80 "	5	8	13
80 to 90 "	4	5	9
90 to 100 "	1	..	1
Totals	29	30	59

One case of diphtheria occurred during the year, the patient being a child who was attending the public school. Three cases of scarlet fever were reported during the year. The first case was an adult, thirty-three years of age. The second case was a pupil of the public school, eight years of age. After an absence of two weeks this patient returned to school, and the teacher noticed that the child was picking pieces of loose skin from her hand, and she at once sent the child to the medical inspector of schools, who pronounced it a case of scarlet fever. The child was sent home, together with her sisters, of whom there were two in the school, and the family physician confirmed the diagnosis. The source of infection was not learned in either of the above cases. Other pupils from this house attended the public school during the two weeks above referred to, yet, as far as is known, no other case developed from this source of infection. The case was not reported to the Board of Health until seen by the school authorities, the parents stating that the disease was so mild they did not deem it necessary to call in a physician. The third case of scarlet fever was an infant, eight months of age, who had been visiting in New York city and developed the disease immediately after his return to his home in this city. One case of typhoid fever was reported during the year, an adult twenty-three years of age. The patient commutes to New York each day, eating his midday meal in said city; a short time preceding the date of attack the patient visited Trenton and

MONMOUTH COUNTY—*Continued.*

Plainfield, New Jersey, and a town in central New York state, eating at least one meal at each of the places named.

During the past twenty-three years typhoid fever has occurred in Asbury as follows: 1882, 1; 1883, 8; 1884, 5; 1885, 0; 1886, 0; 1887, 0; 1888, 1; 1889, 1; 1890, 0; 1891, 0; 1892, 1; 1893, 1; 1894, 4; 1895, 7; 1896, 1; 1897, 2; 1898, 1; 1899, 3; 1900, 2; 1901, 2; 1902, 3; 1903, 5; 1904, 1.

The public water-supply was introduced in 1886, preceding which date water was obtained from shallow wells on private premises.

One hundred and twenty cases of measles were reported during the year. A child from Philadelphia came to Asbury Park May 1st, visited the public school with her friend on May 2nd, remaining in the same classroom during the entire afternoon session and was said to have had an attack of measles immediately following that period. No physician was in attendance and the Board of Health did not learn of the case until after the child had recovered and many others had been infected. On May 15th twelve cases were reported from the grade referred to and the next group were reported ten days later, thirty cases being reported at this time, the infection having spread to other grades in the school. When the cases of the first group were reported the Board of Health made an effort to check the spread of the infection by excluding from school the pupils affected and any others residing in the houses of the different patients. The pupils absent from grades in which cases of measles were known to exist, were reported by the Superintendent of the school twice daily to the health office, and were visited at their homes by the Inspector to learn if they were suffering from measles. Many cases were thus discovered, no physician being in attendance, which otherwise would not have been discovered by the Board.

MONMOUTH COUNTY—*Continued.*

The following rules for the government of the Asbury Park Municipal Hospital for Contagious Diseases were adopted by the Board November 10th, 1903: 1. Application for admission to the Asbury Park Hospital for Contagious Diseases shall be made in writing to the Board of Health of the city. 2. When any such application has been approved by said Board of Health the patient will be removed in a conveyance provided by said Board and will be received in the hospital for treatment. 3. No person shall accompany the patient to the hospital except the employees of the said Board of Health, provided, however, that in the case of infants and under special circumstances an attendant will be allowed by special permission from the Board of Health to accompany the patient. 4. The medical care and nursing of all patients who are received in the hospital will be provided by the City Board of Health, and no physician, nurse, or other attendant shall be allowed to perform any service in the hospital without authorization obtained from the Board of Health. 5. All supplies shall be purchased by an inspector or authorized agent of the Board of Health, and no article shall be received in or removed from the hospital building except by the direction of the Board of Health or one of its authorized agents. 6. No person will be treated gratis in the Asbury Park Municipal Hospital for Contagious Diseases. Every person who is received and who is financially able to pay the charges which are imposed, shall pay the same, and in case the patient is without funds and unable to pay the charges fixed for the treatment and care furnished in the hospital, the municipality from which such person is received shall pay all charges incident to the care and treatment of such indigent person. 7. No patient and no nurse or other employee shall leave the hospital except by the written consent of the City Board of Health or its authorized agent. A copy of the above rules was sent to each practicing physician in this community.

During the regular sanitary inspection work the search on private premises for breeding places for mosquitoes was continued during the year with the result that mosquitoes were found to be breeding on thirty-four private premises, in miscellaneous receptacles, such as rain-water barrels, wooden tubs, tin cans, etc.; the breeding places were distributed over the entire city and this fact undoubtedly accounts for any mosquitoes present during the summer. Four complaints were made by citizens during the summer, stating that they were being annoyed by the presence of mosquitoes. Investigation showed that in each instance mosquitoes were breeding on a nearby property in some receptacle containing stagnant water.

It now being an established fact that flies play an important part in transmitting certain infectious diseases when permitted to come in contact with excrementitious matter, the Board adopted the following ordinance with a view to abolish all privy vaults, and thus avoid the possi-

MONMOUTH COUNTY—*Continued.*

bility of flies disseminating infectious diseases by coming in contact with the filthy contents of such structures:

A Supplement to an Ordinance entitled "The Sanitary Code of the City of Asbury Park, N. J.," adopted August 3rd, 1897.

Section 1. Be it ordained by the Board of Health of the City of Asbury Park, N. J., that in addition to the nuisances already defined in the ordinance to which this ordinance is a supplement, the construction, maintenance, use or continuance of any privy vault, or other receptacle in or upon the ground for human excrement in such a manner that the filthy contents thereof shall be accessible to flies, shall constitute, and is hereby declared to be a nuisance; and the construction, maintenance, use or continuance thereof is hereby prohibited.

Section 2. Any person or corporation violating the provisions of this ordinance shall, on conviction, forfeit and pay a penalty of twenty-five dollars. Adopted July 5th, 1904.

The following notice was ordered by the Board to be sent to the owner or responsible person or corporation of any property in this city on which a privy vault existed in violation of the above ordinance:

Asbury Park, N. J., Aug. 31, 1904.

Dear Sir: Your attention is hereby called to "A Supplement to an Ordinance entitled The Sanitary Code of the City of Asbury Park, N. J.," adopted July 5th, 1904, see copy attached hereto, and you are hereby advised that the privy vault on the premises owned by you No. _____ Avenue is maintained in violation of said ordinance.

At the last regular meeting of the Board of Health it was, by motion, ordered that you be notified to discontinue the use of said privy vault, to cause the accumulation in said privy vault to be removed and to also cause said privy vault to be filled with clean earth not later than October 1st, 1904.

Eighty-nine privy vaults have been removed during the year and plans for proposed plumbing work necessary to be constructed before privy vaults are abandoned, are now on file in the office of the Board of Health for the removal of twenty-five additional privy vaults; and it is the intention of the Board that before another season every privy vault in the city shall be abandoned.

114 REPORT OF THE BOARD OF HEALTH.

MIDDLESEX COUNTY—*Continued.*

Helmetta Borough.—Members and Officers—Geo. A. Helme, President; A. H. Clemons, J. A. Trimmer, Ira Bowne, R. J. Franklin, Secretary; Edward M. Clemons, Registrar; J. G. Denelsbeck, M. D., Inspector.

Madison Township.—Members and Officers—James Fountain, Browntown; Cornelius Burlin, Browntown; Ambrose Green, Browntown; I. C. Crandall, M. D., Old Bridge; D. H. Brown, Secretary, Browntown; Ed. Barker, Inspector, Cliffwood.

Metuchen Borough.—Members and Officers—A. C. Kelly, President; Frank Orton, W. V. McKenzie, M. D., Chas. Tansig, Secretary; A. C. Ayers, Registrar.

Monroe Township.—Members and Officers—Willard Forman, Jamesburg; C. A. Morse, Prospect Plains; T. M. Appleget, Cranbury; R. R. Vandenberg, Secretary, Prospect Plains.

Piscataway Township.—Members and Officers—Nelson M. Giles, President, Bound Brook; T. H. Brantingham, South Plainfield; B. D. Giles, New Market; M. J. Whitford, M. D., New Market; Geo. S. Bunting, Secretary, New Brunswick.

Raritan Township.—Members and Officers—Theodore Ill, New Brunswick; J. T. Dunham, New Brunswick; Peter Lott, Metuchen; W. V. McKenzie, M. D., Metuchen; Wm. T. Woerner, Clerk, New Brunswick.

Sayreville Township.—Members and Officers—August Rohdes, Wm. Burke, Henry Arleth, J. H. Beekman, M. D., B. F. Samsel, Secretary; Chas. Englehardt, Inspector. All of Sayreville.

South Amboy City.—Members and Officers—J. L. White, M. D., President; E. E. Haines, M. D., Jos. A. Sexton, F. E. DeGraw, Secretary; Chas. S. Buckelew, Inspector.

South Brunswick Township.—Members and Officers—Wm. H. Gulick, President, Kingston; J. H. Stults, Cranbury; J. B. Rowland, Monmouth Junction; Wm. Perkins, Secretary, Princeton.

South River Borough.—Members and Officers—Joseph Miller, Jr., John Van Norden, Jesse Selover, Secretary; F. W. Bissett, M. D., Inspector; J. C. Bowne, Registrar.

MONMOUTH COUNTY—*Continued.*

There are but four premises in the city on which dwellings are located which are not connected with the public sewer system. Three of these are to be connected in a short time. No change has been made in the final disposal of sewage from Asbury Park. The subject has been discussed during the year, and methods are now being considered by the Council for a more satisfactory disposal, and it is hoped some satisfactory method will be in operation before another year. Before the city acquired possession of the public sewer system, in 1903, the owner of the said system required that when house sewers, with water closets connected to the house drains, were connected thereto, that a catch basin, with grating, must be placed on the house drain. To prevent the increase of this class of nuisances, and to secure ample light and ventilation in water closet compartments, the following ordinance was adopted by the Board:

An ordinance regulating drain connections and requiring ventilation in water closet compartments.

Section 1. Be it ordained by the Board of Health of the City of Asbury Park that no house or house drain shall hereafter be connected with any privy vault, catch basin or cesspool, nor with any drain emptying into any privy vault, catch basin, or cesspool, not owned by the city of Asbury Park.

Section 2. Be it further ordained, that all water closet compartments placed in any cellar or basement in the City of Asbury Park shall be ventilated by a window or windows opening to the outer air. The area of such window openings shall not be less than four square feet to each one hundred cubic feet of space in such water closet compartment, and no water closet shall be placed in an unventilated room or compartment, not being in a cellar or basement, unless said compartment shall have a window opening to the outer air, or be ventilated by means of an air shaft or air duct having an area of at least two square feet and the opening to the outer air of such air shaft or air duct shall equal in area that of the shaft or duct.

Section 3. Any person, or persons, or corporation violating any of the provisions of this ordinance, shall on conviction thereof, pay a penalty of twenty-five dollars.

Adopted April 5th, 1904.

MONMOUTH COUNTY—*Continued.*

Table Showing the Amount and Cost Per Cubic Yard for the Removal and Disposal of Garbage, Dead Animals and Rubbish From Asbury Park, for the Past Six Years.

GARBAGE AND DEAD ANIMALS.			
YEARS.	Contract Price.	No of Cubic Yards Removed.	Average Cost Per Cubic Yard.
1899.....	\$2,400 00	3,652.83	\$0.6570
1900.....	2,400 00	3,540.94	0.6777
1901.....	2,400 00	3,601.74	0.6663
1902.....	2,850 00	3,634.61	0.7841
1903.....	2,850 00	3,481.97	0.8185
1904.....	2,850 00	3,849.58	0.7403

RUBBISH.			
YEARS.	Contract Price.	No. of Cubic Yards Removed.	Average Cost Per Cubic Yard.
1899.....	\$2,000 00	7,038.5	0.2841
1900.....	2,000 00	7,494.0	0.2669
1901.....	2,000 00	8,410.0	0.2378
1902.....	2,000 00	8,804.0	0.2271
1903.....	2,000 00	10,509.4	0.1903
1904.....	2,000 00	10,437.4	0.1916

The Garbage contractor's daily reports for the past five years show the following number of violations, by householders, of the health ordinances, in the manner of storing garbage and rubbish:

NATURE OF VIOLATION.	1900.	1901.	1902.	1903.	1904.
Premises with leaky metal receptacles..	21	44	8	38	36
Premises on which garbage was stored in wooden receptacles.....	29	42	49	35	22
Garbage receptacles containing an excessive amount of fluids.....	3	3	3	4	14
Premises on which garbage receptacles were inadequate.....	22	49	57	20	1
Premises on which garbage was stored in inaccessible places.....	0	1	1	0	0
Premises on which garbage receptacles were too large to be conveniently handled	8	1	2	15	5
Premises on which ashes were mixed with garbage.....	1	0	0	1	3
Premises on which rubbish was mixed with garbage	5	1	0	7	4
Premises on which rubbish contained prohibited substances.....	8	3	1	7	16
Totals	97	144	121	127	101

REPORT OF THE BOARD OF HEALTH.

MONMOUTH COUNTY—Continued.

The following table shows the number and nature of citizens' complaints received and investigated during the year:

TABLE SHOWING NATURE OF COMPLAINTS RECEIVED.

DATE OF COMPLAINT.	
<hr/>	
1903.	
October.	
November. . . .	
December	
1904.	
January.	
February. . . .	
March.	
April.	
May.	
June.	
July.	
August.	
September. . .	
<hr/>	
Totals. . . .	

LOCAL BOARDS OF HEALTH.

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MONMOUTH COUNTY—*Continued.*

TABLE SHOWING NATURE OF COMPLAINTS RECEIVED —Continued.

130 REPORT OF THE BOARD OF HEALTH.

MONMOUTH COUNTY—*Continued.*

Four hundred and sixty-three citizens' complaints were received and investigated during the year. One hundred and sixty complaints against the garbage service were lodged, investigation finding fifteen to be unfounded; of the remaining three hundred and three complaints of nuisances, no just cause for complaint was found to exist in twenty-three cases.

Table Showing the Number of Written Permits Issued During the Year,
by Months.

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**Table Showing Number of Prosecutions for Violating Health Ordinances,
for Year Ending October 1st, 1904.**

Year	Number of people (millions)
1980	25
1990	35
2000	45
2020	65

The defendant in the suit brought for polluting the ground by storing stable manure thereon refused to pay the penalty, whereupon a commitment was taken out and the defendant was sent to the county jail for thirty days. After being confined in jail for three days, he paid the fine and costs of suit.

132 REPORT OF THE BOARD OF HEALTH.

MONMOUTH COUNTY—*Continued.*

OFFICE AND INSPECTION WORK IN ASBURY PARK.

Number of violations of health ordinances reported by inspectors during the year.....	898
Number of re-inspections of premises after notice to abate nuisances had been sent.....	793
Number of citizens' complaint investigated.....	463
Number of written orders sent for abatement of nuisances.....	580
Number of cases in which notice to abate nuisances were known have been complied with without further action.....	143
Number of cases referred to the Board with request for instruction	38
Number of written communications sent from the office.....	1,159
Number of inspections made of plumbing work under construction..	439
Number of air-pressure tests applied to plumbing work under construction.....	140
Number of smoke tests applied to plumbing work.....	92
Number of notices for minor alterations and repairs in plumbing work, filed by plumbers, and inspections made.....	48
Number of plumbing plans filed.....	156
Number of plumbing plans approved.....	155
Number of specimens sent to State bacteriological laboratory and replies received through this office.....	91
Number of rooms disinfected, by request, after tuberculosis and measles	6
Dwellings disinfected after infectious diseases.....	4

Atlantic Township.—Members and Officers—H. Wyckoff Buck, Bradevelt; S. Trofford Smock, Colts Neck; John H. Polhemus, Phalanx; Chas. V. Scobey, Secretary, Scobeyville.

Avon Borough.—Members and Officers—H. L. Walker, Monroe Newman, Jas. Brighton, E. May, H. M. Dolan, Secretary.

Deal Borough.—Members and Officers—Geo. W. Weart, Jas. E. Hunt, Wm. Hogencamp, Geo. K. Thompson, Frank B. Mesick; Henry D. Harris, Secretary.

Farmingdale Borough.—Members and Officers—Wm. R. Kinmouth, M. D., Edward Imlay, Chas. H. Bond, Levi W. Farry; Frank P. Van Note, Secretary.

Freehold Town.—Members and Officers—H. S. Brown, M. D., S. L. Bennett, Wm. H. Ingling, E. D. Clayton, Alonzo Brower; Theo. Sickles, Secretary.

MONMOUTH COUNTY—*Continued.*

Freehold Township.—Members and Officers—Peter F. Conover, President; John P. Walker, Millard F. Conover, Grandin L. Clayton, Henry Campbell, Clark Conine; Rulif V. Lawrence, Secretary; Harry Neafie, M. D., Inspector. All of Freehold.

Highlands Borough.—Members and Officers—Augustus Howser, President; R. G. Andrews, M. D., Edward Layton, Edward Pangborn; S. Liming, Secretary.

Holmdel Township.—Members and Officers—Wesley Mason, Keyport; Jonathan Holmes, Holmdel; Jacob O. Lamberton, Hazlet; Aaron Longstreet, Secretary, Keyport; F. V. Thompson, M. D., Inspector, Holmdel.

Manalapan Township.—Members and Officers—Edward Hendrickson, Englishtown; J. C. Sutphen, Tennent; W. C. Hartshorn, Milhurst; A. T. Applegate, M. D., Englishtown; S. C. Bowne, Assessor, Tennent; G. B. Conover, Clerk, Englishtown.

Manasquan Borough.—Members and Officers—A. Howell Miller, President; John Chapman, Geo. Mount; Robert M. Marks, Secretary; Samuel Garrison, Inspector.

Marlboro Township.—Members and Officers—Geo. A. Quackenbush, Englishtown; D. A. Baird, Marlboro; H. P. Hayward, Marlboro; J. D. Ely, M. D., Marlboro; W. C. McElwaine, Secretary, Englishtown.

Middletown Township.—Members and Officers—Chas. Grossinger, Chairman; Leonardsville; R. Lufburrow, Middletown; D. W. Vannote, Belford; Geo. C. Henry, Belford; W. B. Conover, Middletown; Henry D. Smith, Secretary, Middletown; O. W. Budlong, M. D., Inspector, Belford.

Millstone Township.—Members and Officers—John H. Ely, Chairman, Perrineville; S. Perrine Day, Perrineville; Winfield S. Chambers, Perrineville; Wm. T. McMellen, M. D., Perrineville; Geo. J. Ely, Secretary, Cranbury.

Neptune City Borough.—Members and Officers—Stephen H. Hendricks, President; Pierson Gilbert, Howard Van Brunt; Whitfield Smith, Secretary; C. Hubbard Morris, Inspector. All of Bradley Beach.

Ocean Grove.—Members and Officers—A. E. Ballard, President; W. H. Wardell, L. Wilson, E. N. Cole; H. B. Alday, M. D., Secretary; J. H. Alday, M. D., Health Officer.

Raritan Township.—Members and Officers—Augustave Mauer, Presi-

134 REPORT OF THE BOARD OF HEALTH.

MONMOUTH COUNTY—*Continued.*

dent; J. Frank Mason, Wm. C. Smith, Abram Huylar, Chas. F. Tuthill; Rufus C. Walling, Secretary; Jas. M. Walling, Inspector.

Red Bank Town.—Members and Officers—C. D. Warner, President; F. P. Stryker, B. H. Garrison, M. D., John Sheehan; James H. Sickles, Secretary; Elwood Minugh, Inspector.

Shrewsbury Township.—Members and Officers—A. L. Ivins, President, Red Bank; Forman R. Smith, Fair Haven; Wm. T. Parker, Little Silver; Wm. H. Houston, Red Bank; Wm. A. Van Schoick, Red Bank; Victor A. Ligier, Oceanic; A. C. Harrison, Secretary, Red Bank; Wm. Churchin, Inspector, Fair Haven.

Spring Lake Beach Borough.—Members and Officers—S. R. Knight, M. D., J. G. Newman, E. W. Remsen, W. D. Robinson; D. H. Hills, Secretary. All of Spring Lake.

Upper Freehold Township.—Members and Officers—I. S. Dawes, President, Imlaystown; Thos. I. Smith, Red Valley; Elmer E. Polhemus, Cream Ridge; Wm. Quicksill, Assessor, Hornerstown; F. C. Price, M. D., Secretary, Imlaystown.

Wall Township.—Members and Officers—E. C. White, S. Bartley Pearce, Chas. Gifford; Geo. E. Rogers, Secretary, Belmar.

MORRIS COUNTY.

Boonton Town.—Members and Officers—S. L. Garrison, President; J. E. Dunn, Cora Byrnes, E. C. Lyon; N. A. Myers, Secretary; A. E. Estler, Health Inspector.

Butler Borough.—Members and Officers—G. E. Coates, M. D., President; Rudolph Guenter, E. P. Smithyman; Samuel K. Owen, Secretary; Allen Looker, Registrar.

Chatham Borough.—Members and Officers—Jos. H. Conklin, President; Jos. E. Pollard, M. D., Walter V. Sayre, Geo. E. Hall; D. H. Crawford, Secretary; John J. McCormack, Inspector; Ralph E. Lum, Attorney.

Dover City.—Members and Officers—Chas. A. Otto, President; Eugene Buchanan, Eustice Rudine; S. B. Johnson, J. H. C. Hunter, Secretary; John G. Taylor, Inspector.

MORRIS COUNTY—*Continued.*

Wharton Borough.—Members and Officers—H. W. Kice, M. D., President; Robert F. Oram, Miller P. Castner; James Williams, Secretary; Daniel J. Kettrick, Inspector.

OCEAN COUNTY.

Beach Haven Borough.—Members and Officers—John F. Fox, President; T. E. Gifford, T. Cale; W. F. Beer, Secretary; T. A. Gavin, Inspector.

During the year the water mains were extended 1,340 feet.

Dover Township.—Members and Officers—W. Scott Jackson, President, Toms River; Bartine Clayton, Silverton; A. A. Dunham, Toms River; T. B. Irons, Toms River; Frank Brouwer, M. D., Toms River; U. S. Grant, Secretary, Toms River.

Eagleswood Township.—Members and Officers—H. G. Shinn, West Creek; J. W. Holman, West Creek; Jonathan Cox, West Creek; C. H. Conover, M. D., Tuckerton; E. T. Cranmer, Secretary.

Lacey Township.—Members and Officers—John B. Wilbert, Forked River; B. F. Holmes, Forked River; Reuben Tilton, Lanoka; B. F. Mathews, Secretary, Forked River; G. E. Wallace, M. D., Inspector, Forked River.

Lakewood Township.—Members and Officers—John L. Reid, President; John Shearman, Jacob Skidmore, G. MacMillan, M. D.; Ernest E. LeCompte, Secretary; Richard B. Robbins, Inspector. All of Lakewood.

Ocean Township.—Members and Officers—J. R. Stokes, Chairman; Wm. B. Wilkins, Chas. F. Jones; Oscar Brown, Secretary.

Point Pleasant Beach Borough.—No organized Board of Health. Abraham Lower, Borough Clerk.

Sea Side Park Borough.—Members and Officers—Chas. Harker, M. D., H. E. Clayton, Chas. B. Coles, L. J. Stone; G. H. Thatcher, Secretary.

Stafford Township.—Members and Officers—Joshua Hilliard, M. D., President Manahawkin; Edward E. Predmore, Manahawkin; James H. Aker, Mayetta; Benj. Oliphant, Manahawkin; John B. Courtney, Secretary, Manahawkin.

OCEAN COUNTY—*Continued.*

Tuckerton Borough.—Members and Officers—T. T. Price, M. D., President; Wm. S. Steelman, James W. Parker, Barzillai Pullen; J. Frank Mathis, Secretary.

PASSAIC COUNTY.

Manchester Township.—Members and Officers—Samuel Rogers, Chairman; Chas. Erving, Andrew Van Riper; Geo. V. Spangenmacher, Secretary; A. A. Lydecker, M. D., Health Inspector; Richard Krowley, Assistant Inspector. All of Haledon.

Paterson City.—Members and Officers—Andrew F. McBride, M. D., President; John H. Banta, M. D., Frank J. Van Noort, M. D., John R. Hurley, Franklin Van Winkle; J. Alex. Browne, Health Officer; Jas. P. McNair, Secretary; John T. Pollitt, Registrar; Wm. H. MacDonald, Plumbing Inspector; Jas. Fitzpatrick, Sanitary Inspector; Wm. S. Green, M. D., Sanitary Inspector; James Higgins, Counsel.

Pompton Township.—Members and Officers—Jas. E. Sloat, President, Midvale; Edward J. Brown, Erskine; Walter C. White, Butler; David Beam, Secretary, Midvale; D. N. Shippee, M. D., Inspector, Wanaque.

Pompton Lakes Borough.—Members and Officers—John L. Porter, John F. Ball, John Fraser; H. L. Wells, Secretary; C. M. Hawes, M. D., Inspector.

Prospect Park Borough.—Members and Officers—Andrew Hopper, President; Garret Planten, H. W. Street, Geo. Bell; Jacob Doeke, Clerk; A. A. Lydecker, M. D., Inspector, Haledon.

West Milford Township.—Members and Officers—Chilleore Lorie, President; D. E. Drake, M. D., M. J. Shippee, Wm. Eckhart; Celestine Schulster, Secretary, Echo Lake.

SALEM COUNTY.

Alloway Township.—Members and Officers—Chas. Timberman, President, Alloway; Warren L. Ewen, M. D., Alloway; Jos. Garton, Cohansey; Jeremiah S. Watson, Aldine; Wm. E. Simkins, Clerk, Aldine.

SALEM COUNTY—*Continued.*

Elmer Borough.—Members and Officers—Wm. B. Barnart, A. B. Woodruff, M. D., Frank Sturr, Jos. M. Garrison, J. Harry Kandle; Hiram Van Meter, Secretary.

Lower Penns Neck Township.—Members and Officers—J. H. Jenkins, President, Pennsville; D. F. Dixon, Salem; A. B. Batten, Pennsville; W. H. James, M. D., Pennsville; J. G. Mitchell, Secretary, Pennsville.

Oldmans Township.—Members and Officers—H. T. Johnson, M. D., R. Lee Sailor, F. J. Gaventa, J. J. Hunt; Levi C. Justice, Secretary. All of Pedricktown.

Penns Grove Borough.—Members and Officers—James D. Tarton, President; Walter S. Springer, John C. Simpkins, Nathan S. Wood; Henry M. Flanagan, M. D., Secretary.

Pilesgrove Township.—Members and Officers—S. A. Ridgway, E. C. Moore, Clement McAllister; D. F. Davis, Secretary. All of Woodstown.

Pittsgrove Township.—Members and Officers—A. J. Fox, President; John Dillmore, C. S. Atkinson; Geo. Schalick, Secretary, Centreton.

Quinton Township.—Members and Officers—F. B. Husted, M. D., President, Quinton; Andrew Harris, Quinton; Wm. Hood, Quinton; Levi P. Horner, Cohansey; Josiah T. Harris, Secretary, Quinton.

Salem City.—Members and Officers—Henry Chavanne, M. D., President; Ellen B. Smith, M. D., Thos. Waddington; Clinton Bowen, Secretary; A. T. Walton, Sanitary Inspector.

The Secretary of the board reported as follows:

Eleven wells at the water works, varying from 240 to 500 feet deep, have been constructed, and good water furnished. During the year, the lowlying lands of the east side of the city have been drained, and a ten-year contract given to keep them free, thus insuring much improved sanitary conditions. The laying of improved street pavements, and the system of keeping them clean, together with extension of public sewers, are regarded as a decided advance in the permanent sanitary condition of the city.

Upper Penns Neck Township.—Members and Officers—Joseph E. Clark, Wilmer Layton, William Sailor; Geo. W. Hewitt, Secretary, Penns Grove.

SOMERSET COUNTY—*Continued.*

Isaac Hackenberry had spent two or three days in Newark from July 4th. He began to sicken about Aug. 1st. In the meantime he was milking his cow and supplying Mrs. John Wyckoff with milk. She was taken sick Aug. 28th. The examination shows that the discharges from all the patients were deposited in the privies on the infected premises, without ease, and in some cases weeks elapsed after infection until the disease was named. I recommended to the Secretary of the local health board the immediate cleansing and disinfection of the privy vaults on all infected premises in order to prevent the further spread of the fever through the medium of flies.

Bernards Township.—Members and Officers—J. D. Cross, Van Cleve Meeker, Thos. Douglass; S. S. Baldwin, Secretary, Liberty Corner.

Bound Brook Borough.—Members and Officers—R. H. Brokaw, President; C. R. P. Fisher, M. D., M. W. Baxter; W. S. Negus, Secretary; Chas. McNabb, Inspector.

The Secretary of the board reports that after a good deal of agitation and discussion, the borough authorities have taken steps to secure the abatement of the nuisance caused by the collection of stagnant water in what is known as the gravel pit section of the borough. Bids have been asked, and the total expenditure for this work will in all probably reach \$10,000. The sewer system of the borough will be extended during the coming year.

Branchburg Township.—Members and Officers—A. B. Brokaw, Neshanic Station; James Mingle, North Branch; John C. Stryker, Readington; Henry W. Davis, M. D., North Branch; Peter L. Brokaw, Secretary, Centreville.

Four cases of diphtheria occurred.

Bridgewater Township.—Members and Officers—Bernhardt Meyer, President, Somerville; Jas. Q. Ten Eyck, Somerville; Wm. Harris, Somerville; Christopher Ehni, Raritan; Oscar Dow, Raritan; F. T. Rose, Secretary, Somerville; L. M. Lanning, M. D., Inspector, Somerville.

Franklin Township.—Members and Officers—Wm. A. Cortleyou, Franklin Park; N. S. Wilson, Millstone; Elias Baker, New Brunswick; L. J. Suydam, Secretary, New Brunswick, R. F. D. No. 5; J. Howard Cooper, M. D., Middlebush.

Hillsboro Township.—Members and Officers—J. Vred Opie, Somerville; John V. M. Sutphen, Three Bridges; G. Spencer Van Cleef, Millstone; Wm. H. Merrell, M. D., South Branch; Jos. H. Van Cleef, Assessor, Millstone.

SOMERSET COUNTY—*Continued.*

Millstone Borough.—Members and Officers—S. O. B. Taylor, M. D., President; E. M. Davis, Wm. Esler, Jas. H. Hagaman, John P. Ditmars, Wm. C. Kitchen; Wm. H. Polhemus, Secretary.

Montgomery Township.—Members and Officers—Geo. W. Campbell, President, Griggstown; Henry A. Duryea, Blawenburg; C. B. Allhouse, Skillman; A. B. Mosher, M. D., Griggstown; Wm. I. Robinson, Secretary, Belle Mead.

North Plainfield Borough.—Members and Officers—Andrew Love, President; D. C. Adams, M. D., John McLaughlin, J. O. Osgood; Rev. W. E. Honeyman, Secretary; Wm. N. Pangborn, Inspector.

North Plainfield Township.—Members and Officers—Benj. Black, Scotch Plains; Wm. Titus, Watchung; Albert Brokaw, Dunellen; A. P. Voorhies, Secretary, Plainfield.

Rocky Hill Borough.—Members and Officers—Theodore Stryker, President; A. C. Skirm, W. N. Stults, Malvin Reeve, M. D.; Elmer R. Logan, Clerk.

Somerville Town.—Members and Officers—A. L. Stillwell, M. D., President; Thos. H. Flynn, M. D., John B. Osbourn, John E. Wehrly, Wm. R. Suphen, Secretary; Geo. D. Totten, Inspector.

Warren Township.—Members and Officers—H. P. Williams, President; J. Gunten, F. Alletta; E. E. Sage, Secretary, Gillette.

SUSSEX COUNTY.

Andover Borough.—Members and Officers—J. C. Clark, M. D., President; S. S. Wills, Thos. Decker, S. H. Willson; W. E. Willson, Secretary.

Andover Township.—Members and Officers—C. C. Cox, President, Lafayette; Jos. Longcon, Sparta; Geo. M. Ackerson; J. C. Clark, M. D., Andover; Wm. Iliff, Clerk, Lafayette.

Branchville Borough.—Members and Officers—E. S. Dalrymple, M. D., J. M. Jarvis; J. H. Quick, Secretary.

Fredon Township.—Members and Officers—David R. Warbass, Newton; Benj. Fritts, Newton; Geo. Van Horn, Newton; E. W. Sander, Stillwater; Jos. E. Huff, Secretary, Newton.

SUSSEX COUNTY—*Continued.*

Green Township.—Members and Officers—C. L. Cook, Newton; A. Hull, Huntsville; N. Coleman, Tranquility; I. L. Labar, Secretary, Tranquility.

Hampton Township.—Members and Officers—A. J. Williams, Balesville; M. H. Northrup, Baleville; J. Martin Couse, Halsey; J. W. Thompson, Secretary, Blair.

Hardyson Township.—Members and Officers—Caleb Farber, Hamburg; Robert Edsall, Hamburg; J. Stephens, Franklin; L. R. Congleton, Secretary, Hamburg.

Hopatcong Borough.—Members and Officers—Lewis S. Pilcher, M. D., President; John Aldred, R. S. Baker, Dwight B. Smith; Theo. A. K. Gessler, D. D., Clerk. All of Landing.

Montague Township.—Members and Officers—John Bigart, Port Jervis, N. Y.; Cora J. Bell, Port Jervis, N. Y.; Timothy Shay, Hainesville; Geo. McCarty, Secretary, Port Jervis, N. Y.

Newton Township.—Members and Officers—Shepard Voorhees, M. D., President; Lewis J. Martin, John N. Calbin, Geo. M. Harris; Geo. B. Case, Secretary; I. L. Hallock, Inspector. All of Newton.

Sandyston Township.—Members and Officers—Adam Van Syckle, F. M. Shay, E. Rosenkrans; Warren Van Sickie, Assessor; M. D. Hughes, M. D., Secretary. All of Layton.

Sparta Township.—Members and Officers—L. C. Burd, Ogdensburg; W. H. Beatty, Sparta; R. H. Earls, Sparta; J. W. Maseker, Clerk, Sparta.

Stanhope Borough.—Members and Officers—John McMickle, President; Thos. E. Haggerty, Isaac Kinnicutt, Stephen Thompson, John H. Slaght; Austin S. Van Arsdale, Secretary.

Stillwater Township.—Members and Officers—John R. Kice, President, Stillwater; C. A. Lewis, Stillwater; E. W. Landes, M. D., Stillwater; W. E. Sitman, Swartswood; O. Van Horn, Secretary, Stillwater.

Wantage Township.—Members and Officers—Frank Coe, Irvin Brink, Lebens Martin, W. T. Wright; S. M. Parcell, Secretary. All of Sussex.

UNION COUNTY—*Continued.*

cases, no deaths; tuberculosis, 49 cases, 40 deaths. Total cases, 472; total deaths, 50.

On January 20th a case of smallpox was reported in the person of a colored man, Alexander Stills. Stills was employed as a barber in one of the better class barber shops in Plainfield. As far as could be ascertained, the source of infection was from a traveling salesman, who came from a barber supply company in Philadelphia. The patient was immediately removed to our isolation hospital. Every one who was in any way exposed to the disease was vaccinated, and, according to our custom, kept under observation by a physician every day for two weeks. The barber shop was thoroughly cleansed and disinfected, and all instruments, cups, fixtures, etc., sterilized. No secondary case developed. After ten weeks of illness, the man was released. Gratuitous vaccination was offered to the public last winter, but few people responded because of the thoroughness of the vaccination the previous year.

The Board has felt the need of a hospital where cases of scarlet fever and diphtheria could be isolated. At present there is no such institution in Plainfield, but an isolation ward is to be built shortly in connection with our new hospital.

In June, 1904, a thorough house to house sanitary inspection was started. This work lasted during the summer, but we were unable to entirely finish. Seven hundred and seventy-nine premises were inspected. Following are the tabulated results of the entire inspection:

Total number premises inspected.....	779
Defective plumbing system found.....	38
Accumulation of ashes and garbage.....	27
Accumulation of garbage.....	25
Accumulation of manure.....	10
Privy vaults which required cleaning.....	198
Cesspools which required cleaning.....	15
Abandoned privy vaults not properly filled up.....	83
Abandoned cesspools not properly filled up.....	1

The following notices were served in connection with the above work: Notices to abate nuisances, 102; notices to abolish vaults, 323; notices to abolish cesspools, 94; notices to connect with sewer, 179.

Regular periodical inspection of dairies has been made as outlined in previous reports. Each dairy is visited as often as once a month, and records are kept of these inspections. Samples of all the milk sold in Plainfield are frequently analyzed. The records of dairy inspections and milk analysis are open to the public at all times.

The following is the list of the cemeteries within the limits of the city of Plainfield, and their keepers: St. Mary's Cemetery—Daniel McCarthy; M. E. and Baptist—Thos. Morcom.

UNION COUNTY—*Continued.*

Deaths from preventable diseases:

Scarlet fever, 1; typhoid fever, 2.

Roselle Borough.—Members and Officers—H. C. Pierson, President; M. W. Sewall, J. W. Hope, W. B. Hadley; W. J. D. Chandler, Secretary; G. A. Rawlins, Registrar; J. H. Kinney, Inspector.

Roselle Park Borough.—Members and Officers—William Kingsland, President; Patrick Cooley, Arthur Cocks, Chas. Englehart, Simon Birmingham; Arthur Churchill, Secretary.

Springfield Township.—Members and Officers—James Vanworthway, Richard Trioett, John L. Denmann; Lewis T. Terry, Secretary; J. A. Stites, M. D., Inspector. All of Springfield.

Summit City.—Members and Officers—Wm. H. Risk, M. D., President; Henry Atterbury, Wm. D. Gibly, Wm. H. Lawrence, M. D., Col. A. B. Wallace; T. J. Scott, Secretary; Wm. McMane, Health Officer.

Union Township.—Members and Officers—Walter A. Miller, President, Hilton; John H. Doremus, Lyons Farms; D. B. Wade, Union; D. Hobart Sayre, Secretary, Union.

Westfield Town.—Members and Officers—Joseph B. Harrison, M. D., President; Geo. L. Delatour, H. H. Butler, Edward Edgar; C. W. Harden, Secretary; Sherman Cooper, M. D., Medical Officer; Wm. Addis, Sr., Plumbing Inspector.

 WARREN COUNTY.

Allamuchy Township.—Members and Officers—C. W. Puffer, President, Allamuchy; G. W. Guest, Allamuchy; Richard E. Martin, Hackettstown; L. C. Osmun, M. D., Hackettstown; T. G. Dunlap, Inspector, Allamuchy; Benj. A. Hendershot, Clerk, Allamuchy.

Blairstown Township.—Members and Officers—Wm. C. Howell, Blairstown; Chas. Heldemore, Blairstown; H. P. Linaberry, Vail; W. S. Perry, Secretary, Delaware; Henry O. Carhart, M. D., Inspector, Blairstown.

Hackettstown Town.—Members and Officers—F. M. Cook, M. D., President; Alden E. Martin, M. D., Augustus W. Cutler, Thos. S. White,

WARREN COUNTY—*Continued.*

Richard G. Clark, James Tamblyn, Alfred Hoffman; Frank P. Titus, Secretary.

Harmony Township.—Members and Officers—Irvin B. Smith, Rocksburg; H. B. Bassard, M. D., Phillipsburg; J. M. Rush, Stewartsville; Geo. M. Amey, Phillipsburg; Freeman Schuler, Secretary, Rocksburg.

Independence Township.—Members and Officers—W. K. Teel, Vienna; J. T. Lomerson, Vienna; A. B. Leigh, Danville; W.H. McCormick, Hackettstown; F. W. Haggerty, M. D., Secretary, Vienna.

Oxford Township.—Members and Officers—L. B. Hoagland, President; Jas. W. O'Bryan, Geo. Wildrick, John H. Hildebrant; Michael Mountain, Secretary, Oxford.

Pahaquarry Township.—Members and Officers—Garnet Gariss, Richard Lutes, Jason Spangenberg; Jason K. Hill, Secretary, Millbrook.

Phillipsburg Town.—Members and Officers—Jos. Pfeiffer, President; Francis Drake, M. D., P. F. Hagerty, Michael Lynch, Henry Bercaw, Daniel Ziegler; Frank Kneedler, Secretary; Howard R. Carey, Inspector.

Washington Borough.—Members and Officers—C. M. Williams, John Hornbaker, D. V. Wyckoff, R. M. Petty; Harry Christine, Clerk; A. J. Bigler, Inspector.

- ulation and Names and Addresses of Officers.

AND ADDRESS SECRETARY.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS
M. D.	B. H. Overt
M. D.	Alfred T. Glenn.
M. D.	U. G. Pursell.
M. D.	B. F. Soby, M. D.
M. D.	H. W. Kunzi
M. D.	Frank L. Hewitt.
M. D.	J. F. Cline
M. D.	H. C. Kramer.
M. D.	John W. Thompson.
M. D.	J. H. C. Hunter.
M. D.	S. M. Long.
M. D.	V. P. Hoffmann
M. D.	James J. Manning
M. D.	Robert Jamieson
M. D.	Daniel F. Lane.
M. D.	Wm. P. Ellery
M. D.	Joseph Tucker.
M. D.	C. J. Rooney.
M. D.	James H. Reynolds.
M. D.	L. H. Hogate.
M. D.	John O'Brien, Jr.
M. D.	Thomas Martin.
M. D.	James F. Connelly.
M. D.	F. J. Ward.
M. D.	W. B. Gano.
M. D.	George F. Grear.
M. D.	John T. Pollitt.
M. D.	John F. Reilley.
M. D.	Frank Kneidler.
M. D.	H. O. Mattison
M. D.	Chas. H. Anglem.
M. D.	Clinton Bowen.
M. D.	T. J. Scott.
M. D.	C. Edward Murray.
M. D.	J. E. Estell.
M. D.	J. M. Christopher.
M. D.	Wm. H. Conover.

List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.

SANITARY DISTRICT.	COUNTY.	Popula- tion by Census of 1900.	NAME AND ADDRESS OF SECRETARY.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS.
Boroughs—Con.				
Etna	Bergen .....	.....	H. I. Angell.....	H. I. Angell.
Fairview	Bergen	1,003	C. M. Driggs.....	John G. Bush.
Fanwood	Union	399	N. C. Barnhart.....	Ernest C. Kieb.
Farmingdale	Monmouth.....	.....	Frank P. Van Note.....	Frank P. Van Note.
Fieldsboro	Burlington..	459	Wm. Leatherbury.....	C. H. Fennimore.
Florham Park.....	Morris	752	Henry W. Young.....	Henry W. Young.
Fort Lee	Bergen	2,934	Robert H. Morrow.....	Robert H. Morrow.
Frenchtown	Hunterdon..	.....	E. W. Moore	Wm. R. Shurts.
Garfield	Bergen	3,504	P. J. Scanlon.....	P. J. Scanlon.
Garwood	Union .....	.....	William Darroch, Pres.....	Chas. D. Costleigh.
Glen Ridge	Essex	1,960	H. K. Benson.....	Clarence Place.
Glen Rock	Bergen	613	.....	Peter Van Winkle, Ridgewood.
Haddonfield	Camden	2,776	Wm. H. Harrison.....	Wm. H. Harrison.
Haddon Heights	Camden .....	.....	Robert J. Clyde.....	Robert A. Glenn.
Harrington Park.....	Bergen .....	.....	William Tompkins, Borough Clerk.....	Wm. Tompkins.
Hasbrouck Heights.	Bergen	1,255	John G. Martin.....	John G. Martin.
Haworth	Bergen .....	.....	E. H. Schuyler.....	E. H. Schuyler.
Hawthorne	Passaic	2,096	Chas. H. Hodges.....	W. E. Thompson.
Helmetta	Middlesex..	447	Robt. J. Franklin.....	Edward M. Clemmons.
High Bridge	Hunterdon..	1,377	Samuel Tate.....	P. H. Murray.
Highlands	Monmouth..	1,228	S. L. Liming.....	S. L. Liming.
Hightstown	Mercer	1,749	.....	John J. Carr.
Holly Beach	Cape May..	569	E. H. Randolph.....	H. S. Hewitt.
Hoptacong	Sussex .....	.....	T. A. K. Gessler.....	Theo. A. K. Gessler, Landing.
Hopewell	Mercer	980	.....	Harry E. Sutphen.
Island Heights	Ocean	316	.....	Frank Simpson.
Junction	Hunterdon ..	998	Edgar E. Riddle.....	E. E. Riddle.
Lavalette	Ocean	21	.....	Robert H. Good.
Leesburgh	Cumberland,	.....	.....	.....
Leonia	Bergen	804	H. M. Thompson.....	H. M. Thompson.
Linden	Union	402	R. S. Cole.....	R. S. Cole.
Linwood	Atlantic	495	.....	James Farish.
Little Ferry	Bergen	1,240	A. W. Woods.....	A. W. Woods.
Lodi	Bergen	1,917	Jacob Van Hook.....	Jacob Van Hook.
Long Branch Com... Monmouth..	Bergen	8,872	E. B. Blaisdell.....	E. B. Blaisdell.
Longport	Atlantic	80	R. M. Elliott, Mayor.....	.....
Madison	Morris	3,754	C. E. Cook.....	Chas. E. Cook.
Manasquan	Monmouth..	1,500	Robert M. Marks.....	Robert Marks.
Matawan	Monmouth..	1,511	Wm. A. Rogers.....	Wm. A. Rogers.
Maywood	Bergen	536	Wm. Widnall.....	William Widnall.

Officers—Continued.NAME AND ADDRESS OF
TRAR OF VITAL STATISTICS

Lawlins.
 Churchill.
 Lawton.
 Woodruff.
 Reid.
 H. Clouting.
 Good

 R. Fox.
 Graw.
 Hart.

 Bowne.
 Ellis.
 An Arsdale.
 Wilson.
 Whittle
 H. Rieger
 Lansing, M. D.
 De Mott, Paterson, R.F.D. No. 1
 Speck.
 Abriskie.
 Allington.
 Royal.
 Ade.
 Brennan, Carlton Hill.
 Christine.
 V. English.
 Francisco.
 W. Reeves, Eldredge
 Cleveland.
 Force.
 R. Cilla
 Subber.
 Fortendyke.
 I. Wagner.
 White.
 Stepler.

List of Sanitary Districts, Showing Population and Names and Addresses of Officers--Continued.

SANITARY DISTRICT.	COUNTY.
Townships--Con.	
Quinton	Salem
Randolph	Morris
Raritan	Hunterdon
Raritan	Middlesex
Raritan	Monmouth
Readington	Hunterdon
Ridgefield	Bergen
Riverside	Burlington
Rockaway	Morris
Roxbury	Morris
Saddle River	Bergen
Sandyston	Sussex
Wayreville	Middlesex
Shamong	Burlington
Shrewsbury	Monmouth
Southampton	Burlington
South Brunswick	Middlesex
South Harrison	Gloucester
South Orange	Essex
Sparta	Sussex
Springfield	Burlington
Springfield	Union
Stafford	Ocean
Stillwater	Sussex
Stoe Creek	Cumberland
Tabernacle	Burlington
Teaneck	Bergen
Tewsbury	Hunterdon
Union	Bergen
Union	Hudson
Union	Hunterdon
Union	Ocean
Union	Union
Upper Freehold	Monmouth
Upper Penns Neck	Salem
Upper Pittsgrove	Salem
Upper	Cape May
Vernon	Sussex
Verona	Essex
Voorhaes	Camden

List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.

SANITARY DISTRICT.	COUNTY.	Popula- tion by Census of 1900.	NAME AND ADDRESS OF SECRETARY.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS.
Townships—Con.				
Wall	Monmouth...	3,212	Geo. E. Rogers	Geo. E. Rogers, Belmar, R. F. D. No. 2.
Walpack	Sussex	371	.....	J. W. Bunnell, Walpack Centre.
Wantage	Sussex	2,217	S. M. Purcell.....	S. M. Purcell, Sussex.
Warren	Somerset ..	1,008	Edmund E. Sage	Edmund E. Sage, Gillette.
Washington	Bergen	782	.....	Geo. H. Yeomans, Harrington Park.
Washington	Burlington..	617	Walter S. Sooy.....	Walter S. Sooy, Green Bank.
Washington	Gloucester..	1,252	.....	Chas. D. Nicholson, Turnersville.
Washington	Mercer	1,157	E. K. Cole.....	E. K. Cole, Windsor.
Washington	Morris	2,220	Geo. H. Sliker.....	Geo. H. Sliker, Pleasant Grove.
Washington	Warren	1,249	.....	Samuel Rinehart, Washington.
Waterford	Camden	2,161	H. N. Gillon, Berlin.....	Chas. D. Heath, Berlin.
Wayne	Passaic	1,985	.....	Thos. D. Ryerson, Wayne.
Weehawken	Hudson	5,325	Elijah Blackhurst, Clerk	
Westampton	Burlington..	567	.....	Hudson B. Haines, Mount Holly.
West Amwell	Hunterdon..	839	Geo. H. Carr.....	Geo. H. Carr, Lambertville.
West Deptford	Gloucester..	1,951	James Carter.....	James Carter, Thorofare.
West Milford	Passaic	2,112	Celestine Sehulster.....	Celestine Sehulster, Echo Lake.
West Windsor	Mercer	1,279	.....	C. H. Mather, Lawrence Station.
Weymouth	Atlantic	972	F. R. McKeague.....	F. R. McKeague, Tuckahoe.
Willingsboro	Burlington..	673	Jerome Wills.....	Jerome Wills, Burlington.
Winslow	Camden	2,392	Michael G. Burdsall.....	Michael G. Burdsall, Tansboro.
Woodbridge	Middlesex ..	7,631	.....	John H. Leisen, Woodbridge.
Woodland	Burlington..	398	Elmer Dunfee.....	Elmer Dunfee, Chatsworth.
Woolrich	Gloucester..	2,291	W. G. Simmons, M. D.....	H. C. Howey, Swedesboro.

List of Coroners in New Jersey.

Atlantic County—Albert C. Stephany, Richard Benson, Wm. B. Parcello.
Bergen County—Willis W. Curry, Charles S. Robertson, James A. Morgan.
Burlington County—Thomas S. Wells, William Grobler, Frank Ridgway.
Camden County—Paul N. Litchfield, Ahab H. Lippincott, Philip W. Beale.
Cape May County—George Sayre, Jr., John D. Craig, Chas. H. Clouting.
Cumberland County—Ferdinand Jones, Samuel M. Hall, Frank B. Potter.
Essex County—C. William Heilmann, Richard M. Pearce, Albert J. Holle.
Gloucester County—Charles S. Heritage, Wesley Grant Simmons, Howard A. Wilson.
Hudson County—George J. Brackner, Peter J. Gormon, Edward C. Zeiger.
Hunterdon County—Edgar Allen, Isaac S. Cramer, Frank W. Larison.
Mercer County—William W. Rogers, William M. Disbrow, James N. Rue.
Middlesex County—William H. Quackenboss, John V. Hubbard, Edward C. Haines.
Monmouth County—Frank J. Queeny, Asbury F. Bedle, Russel G. Andrew, Jr.
Morris County—Henry V. Day, Wilferd A. Surnburger, William E. Collins.
Ocean County—John Hagaman, J. Clarence Cranmer, J. Fred. Conover.
Passaic County—George McGlory, Nixon Campbell, Jr., J. Mortimer Blauvelt.
Salem County—Emerson P. McGeorge, Charles W. Denn, Samuel J. Shute.
Somerset County—Claudius R. P. Fisher, Mahlon C. Smalley, W. Howard Toms.
Sussex County—Charles E. Dowling, Jephtha C. Clark, Edward S. Dalrymple.
Union County—Horace R. Livengood, Russell A. Shirrefs, Alvin R. Eaton.
Warren County—Michael Kenney, B. Frank Fox, Samuel F. Amerman.

List of County Physicians in New Jersey.

Atlantic County—Emanuel C. Shauer, M. D.

Cumberland County—E. L. Diamant, M. D.

Essex County—William H. McKenzie, M. D.

Hudson County—Charles B. Converse, M. D.

Mercer County—R. R. Rogers, Jr., M. D.

Middlesex County—Edgar Carroll, M. D.

Passaic County—Andrew F. McBride, M. D.

Salem County—Henry Jackson, M. D.

Somerset County—S. O. B. Taylor, M. D.

Union County—F. W. Westcott, M. D.

Warren County—L. B. Hoagland, M. D.

No. 103. Inspection of the premises on the east side of Linden Avenue, opposite Lake St. Oradell, showed that a house drain discharged sewage directly into a tributary of the Hackensack River. A notice to discontinue the pollution of the stream was served upon the owner on January 23, 1903. Reinspection of the premises February 9 showed that the drain had been disconnected, and waste liquids from the house were thrown on the ground. Upon reinspection of these premises May 5, 1904, it was found that a dry earth closet had been placed under the privy from which in times past foul liquids had been discharged into the stream, and that greater care was being exercised in the disposal of sewage.

No. 110. Inspection of premises located on Great Bear creek, north of Woodcliff, showed that a sink drain discharged into a stream which is one of the tributaries of the Hackensack River. Frequent inspections had been made of these premises during the year 1904, and the owner had been notified to discontinue the contamination. No attention having been paid to the notice, the facts in the case have been presented to the Attorney General, and an application will be made to the Court of Chancery for an injunction to restrain the owner from continuing the contamination.

No. 153. Upon examination of premises located at Norwood it was found that a sink drain discharged sewage directly into a ditch which is one of the tributaries of the Hackensack River, and a manure pile is so located that liquid manure finds its way into the same stream. Notice to discontinue the contamination was served upon the owner September 15, 1903. Reinspection of these premises made May 6, 1904, showed that the sources of contamination had been removed.

No. 162. Upon inspection of premises located one mile east of Westwood it was found that sewage from bath-tubs, closet and kitchen sink was discharged directly into one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner September 25, 1903. Reinspection of the premises April 25, 1904, showed that the contamination had been discontinued.

No. 164. Upon examination of premises located at Montvale it was found that house drainage was discharged by a sink drain into a brook which is one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner September 25, 1903. Upon reinspection of these premises May 11, 1904, it was found that a cesspool had been constructed.

CELLAR BAKERIES.

Justice of the Peace Thomas H. Cumming, of Hackensack, rendered a decision August 12, 1904, in the suit brought by the department of fire inspection against Joseph Messineo, a baker, of Garfield, Bergen County, in which he finds Messineo guilty of violating the law prohibiting the establishment of cellar bakeries, and orders that he pay a fine of \$100.

The suit was brought under the act of 1903, which was an amendment to the act of 1896, regulating the establishment of bakeries. The Messineo bakery was opened last December after a warning from the department that it would be a violation of the law.

REGULATIONS OF BARBER SHOPS.

LA PORTA v. BOARD OF HEALTH OF CITY OF HOBOKEN.

(Supreme Court of New Jersey. June 13, 1904.)

1. The Legislature has given ample authority to the Board of Health, in the exercise of the police power, to prevent the spread of contagious skin diseases in barber shops, and stringent regulations for that purpose are lawful.

(Syllabus by the Court.)

Certiorari by the State, on the prosecution of Nicholas La Porta, to review an ordinance of the Board of Health of the City of Hoboken. Certiorari dismissed.

Argued February term, 1904, before VAN SYCKEL, FORT, and GARRETSON, JJ.

Leon Abbett, for prosecutor. Edwin A. S. Lewis, for defendant.

VAN SYCKEL, J. This suit certifies unto the Supreme Court an ordinance of the Board of Health of Hoboken providing rules to be observed in barber shops to prevent contagious diseases of the skin, and fixing a license of \$2 in each case. The Legislature has given ample authority to the Board of Health, in the exercise of the police power, to prevent the spreading of contagious skin diseases. Gen. St. p. 1644, Sec. 49; Gen. St. p. 1642, Sec. 39. Powers conferred for the preservation of the public health should receive a liberal construction, so that they may be rendered effective. *Morford v. Board of Health*, 61 N. J. Law, 389, 39 Atl. 706; *Gregory v. City of New York*, 40 N. Y. 273. The license fee which may lawfully be imposed for regulation is reasonable in this case for that purpose. *Benson v. Hoboken*, 33 N. J. Law, 280; *Muhlenbrinck v. Long Branch*, 42 N. J. Law 364, 36 Am. Dec. 518; *Blanke v. Board of Health*, 64 N. J. Law, 42, 44 Atl. 847. In the agreed state of the case it is admitted that the license fees will not be sufficient to pay the additional expenses of printing, clerical work, and of inspection required of the Board of Health by the ordinance.

The only reason assigned for holding that the statutory requirements were not observed in passing the ordinance is that it was not published for two weeks before taking effect. Gen. St. p. 1638, Sec. 16. It was adopted on the 23d of December, 1903, and, by its terms, was to take effect on the 1st day of January, 1904. Gen. St. p. 1638, Sec. 16, was amended by section 9, p. 1644, which provides that the ordinance shall be published at least one week prior to its final passage. By the the agreed state of the case it is admitted that the ordinance was adopted on December 23, 1903, and that it was thereafter published for two weeks. The case fails to show whether it was published before its adoption. The objection now made as to publication is not assigned as a reason, and is not supported by proofs.

The writ of certiorari should be dismissed, with costs.

inoculation, and also informed them that the protection would have to be at private expense. I received instructions from the State Board of Health on that date to inoculate as before the animals on the infected Newkirk farm and the farms adjoining. This was done with the result that no more deaths occurred on these farms. I had then inoculated 62 cattle, 19 horses and 2 mules which ended my work, as my instructions were to confine the inoculations strictly to animals liable to infection in the immediate vicinity of the disease. Three other deaths occurred from anthrax in Greenwich Township, and the animals on three farms were immediately inoculated. No other cases of anthrax occurred in this locality. A report of an outbreak of anthrax was sent to me from Heislerville, Maurice River Township, and on the 18th of July I investigated and found that seven cattle had died from anthrax on the farm of Anson Thompson. When the disease first made its appearance several parties pasturing cattle on this farm removed them to their own farms and several of the animals died, and as a result a larger area was infected. I met the township Board of Health and they heartily endorsed preventive inoculation and were ready to do anything in their power to stop the spread of the disease. On July 20 I began to inoculate against anthrax in Maurice River Township, and inoculated 223 head of cattle, 119 horses and 6 mules. Twenty head of cattle died within two weeks from the time the disease first made its appearance, and but two deaths occurred after the first inoculation. These deaths were of animals pasturing in a field that had been infected by the death of one of the cattle removed from the Thompson farm. The farmers of Maurice River Township gladly accepted the preventive inoculation and spared no pains to dispose of the cadavers under my directions. Very respectfully,

S. C. TREMAINE, D. V.S."

GLANDERS.

During the year ending October 31, 1904, 87 cases of glanders have been reported to the State Board of Health. Examination of the report of infectious diseases of animals for the year ending October 31, 1903, shows that in that year 237 cases were reported. It is therefore evident that the epidemic of this disease is under control, except in the counties of Essex and Hudson. In 1903 169 cases of glanders occurred in Essex County. The report for the present year shows that but 19 cases were reported in the same county. In Hudson County only 40 cases occurred in 1903 and 51 in the present year. The following list shows the sanitary district in which the cases occurred, together with other data which may be of interest:

INFECTIOUS DISEASES OF ANIMALS.

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NAME OF SANITARY DISTRICT.	DATE AND NUMBER OF CASES REPORTED.	NAME OF PERSON MAKING REPORT.	DISPOSAL OF EACH CASE.
Jersey City	Nov. 11, 1903 10	W. H. Lowe,	Animal destroyed.
Passaic	" 14, " 1	W. H. Lowe,	" "
West Hoboken	" 24, " 1	" "	" "
Glen Rock	" 30, " 1	" "	" "
Jersey City	" 30, " 2	" "	" "
Newark	Dec. 8, " 1	" "	" "
Newark	Jan. 9, 1904 1	" "	" "
Jersey City	" 26, " 2	" "	" "
Newark	Feb. 3, " 2	" "	" "
Newark	" 7, " 2	" "	" "
Orange	" 7, " 1	" "	" "
Bayonne	" 13, " 1	" "	" "
Belleville	" 16, " 1	J. P. Lowe,	" "
Kearny	" 18, " 3	W. Runge,	" "
Jersey City	" 23, " 3	W. H. Lowe,	" "
Newark	" 23, " 2	" "	" "
Jersey City	" 23, " 3	" "	" "
Jersey City	Mar. 4, " 8	" "	" "
Paterson	" 5, " 1	" "	" "
Carlstadt	" 16, " 1	" "	" "
Great Meadows	" 16, " 3	Owner	" "
Newark	" 16, " 1	W. H. Lowe,	" "
Newark	" 20, " 1	J. W.	" "
Passaic	Apr. 2, " 1	J. P. Lowe,	" "
Passaic	" 6, " 1	" "	" "
Newark	" 7, " 1	C. Bowen,	" "
Cedar Grove	" 10, " 1	Raymond Smith,	" "
Bayonne	" 21, " 1	R. J. Halliday,	" "
Bayonne	May 10, " 1	" "	" "
East Orange	" 18, " 1	W. F. Harrison	" "
Newark	" 17, " 1	D. C. Bowen,	" "
Jersey City	July 15, " 1	D. C. Bowen.	" "
Carlstadt	" 23, " 2	W. J. Fredericks,	" "
Jersey City	" 8, " 11	Henry Smellie,	" "
Passaic	" 9, " 1	J. P. Lowe	" "
Bayonne	" 22, " 2	R. J. Halliday,	" "
Haledon	Aug. 6, " 1	W. H. Lowe,	" "
Jersey City	" 6, " 1	Henry Smellie	" "
West New York	" 8, " 3	W. H. Lowe,	" "
Union Hill	" 8, " 2	" "	" "
Bayonne	" 26, " 2	R. J. Halliday,	" "
Passaic	Sept. 8, " 1	J. P. Lowe,	" "
Newark	" 23, " 1	David D. Chandler	" "
Passaic	Oct. 7, " 1	J. P. Lowe,	" "
Newark	" 20, " 2	David D. Chandler	" "
Jersey City	" 22, " 1	Henry Smellie	" "
Jersey City	" 25, " 1	" "	" "
Jersey City	" 26, " 1	" "	" "
Jersey City	" 31, " 1	" "	" "

Examination of the foregoing table shows that the cases of glanders which were reported from different counties are as follows: Bergen, 3; Cumberland, 1; Essex, 19; Hudson, 51; Passaic, 8 and Warren 5, making a total of 87 cases.

The distribution of glanders in the larger cities during the year was as follows: Bayonne, 7 cases; Jersey City, 25; Newark, 15; Passaic, 6 and Paterson 1.

SUMMARY.

Losses of animals from anthrax 26. Vaccinations for anthrax 431. Animals destroyed on account of glanders 87. Cases of actinomycosis reported 4; forage poisoning 2; erysipelas 1; rabies 3 and tuberculosis in cattle 4.

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Clams are taken from the bay and placed upon a float about one hundred and fifty feet from the shore, directly opposite the point where a number of house drains discharge into the bay.

Respectfully submitted,

D. C. BOWEN,
Ass't. Insp. F. and D.

May 26th, 1904.

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examinations made should in every case communicate with the director of the laboratory, stating in detail the character of the examination desired, before sending the specimen.

A tabulated summary of the work of the laboratory during the year is given in Table I. This is arranged by weeks instead of by months as was formerly the custom, in order to correspond with the weekly reports which are regularly made by the laboratory.

LABORATORY OF HYGIENE.

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**Table 1.—Showing the Number of Specimens Examined During the Year,
Arranged by Weeks.**

WEEK ENDING.		Diphtheria.		Tuberculosis.		Typhoid Fever		Malaria.		Miscella- neous.		Totals.
		Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	
Oct.	1-3, 1903.	12	10	24	3	5	2	...	1	...	...	57
"	10 "	29	13	38	5	24	4	3	...	1	...	117
"	17 "	26	14	37	4	17	3	...	1	1	...	103
"	24 "	45	11	35	4	20	2	2	...	...	...	119
"	31 "	29	25	25	6	17	4	...	...	2	...	108
Nov.	7 "	54	39	32	5	20	1	2	...	...	...	153
"	14 "	46	27	32	5	18	3	...	2	1	...	134
"	21 "	36	23	37	3	28	1	...	...	2	...	130
"	28 "	39	25	37	5	19	1	1	...	2	...	129
Dec.	5 "	51	24	35	4	9	5	2	...	1	...	131
"	12 "	41	25	40	8	13	3	1	1	1	...	133
"	19 "	58	30	36	3	16	3	...	...	3	...	149
"	26 "	41	54	33	6	23	6	1	...	...	...	164
Jan.	2, 1904	44	35	36	6	17	9	...	...	...	...	147
"	9 "	42	43	34	3	25	3	2	...	...	...	154
"	16 "	60	28	41	5	17	5	3	...	...	...	159
"	23 "	53	25	39	7	17	1	1	...	3	...	146
"	30 "	40	32	45	8	17	3	2	...	...	...	147
Feb.	6 "	39	31	31	8	22	5	...	...	1	...	137
"	13 "	46	29	43	6	27	...	3	...	...	...	154
"	20 "	34	23	31	8	32	6	1	...	1	...	136
"	27 "	41	16	47	5	24	2	1	...	2	...	138
Mar.	5 "	35	26	55	7	23	4	...	1	...	...	151
"	12 "	42	23	50	...	...	4	...	...	...	...	143
"	19 "	43	28	37	...	...	3	1	...	1	...	139
"	26 "	24	22	45	...	...	6	1	...	2	1	134
Apr.	2 "	25	11	39	...	...	1	1	...	...	...	93
"	9 "	31	12	35	...	...	9	3	...	1	1	119
"	16 "	30	17	53	...	...	5	4	...	2	...	131
"	23 "	24	21	49	...	...	5	1	1	...	...	115
"	30 "	37	25	52	4	...	1	...	...	2	...	140
May	7 "	23	29	47	4	...	3	1	1	...	1	125
"	14 "	26	16	48	5	...	2	...	...	1	...	116
"	21 "	45	19	46	6	...	3	1	...	1	...	139
"	28 "	29	38	51	10	...	9	3	1	2	...	163
June	4 "	20	24	39	8	...	1	...	1	1	...	109
"	11 "	25	17	40	9	...	3	1	...	1	...	110
"	18 "	25	21	47	5	...	1	1	1	1	...	116
"	25 "	30	14	40	3	10	6	1	...	1	...	105
July	2 "	17	20	27	5	14	4	2	...	1	...	90
"	9 "	32	10	27	8	19	4	5	1	1	...	107
"	16 "	21	26	45	8	9	3	2	...	4	1	119

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**Table 1. Continued—Showing the Number of Specimens Examined During the
Year, Arranged by Weeks.**

Table 2.—Showing the Number of Specimens Examined During the Year, Arranged by Cities and Towns.

Bay Head.						8
Bayonne.						5
Belmar.						7
Belvidere.						11
Berlin.						2
Bernardsville.	2					19
Beverly.						11
Blairstown.						2
Bloomfield.			24		2	66
Bloomingdale.			2			3
Bloomsbury.						2
Boonton.			6			20
Bordentown.			20			39
Bound Brook.			4			4
Branchville.			1			1
Bridgeton.			35			44
Burlington.			9			10
Caldwell.			17			40
Camden.			157			316
Cape May.			1			2
Carlstadt.			14			23
Carteret.			1			30
Cedarville.			5			5
Chatham.			3			36
Clayton.			2			1
Clinton.						11
Closter.		4	4			15
Collingswood.	3	11	4			1
Cranbury.			1			1
Cranford.		2	4			1
Dayton.			1			1
Deerfield.	3	7	1			8

**Table 2—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.**

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**Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.**

CITY OR TOWN.		NUMBER OF SPECIMENS EXAMINED.	
ALBANY	1890	10	10
	1891	10	10
ALBANY	1892	10	10
	1893	10	10
ALBANY	1894	10	10
	1895	10	10
ALBANY	1896	10	10
	1897	10	10
ALBANY	1898	10	10
	1899	10	10
ALBANY	1900	10	10
	1901	10	10
ALBANY	1902	10	10
	1903	10	10
ALBANY	1904	10	10
	1905	10	10
ALBANY	1906	10	10
	1907	10	10
ALBANY	1908	10	10
	1909	10	10
ALBANY	1910	10	10
	1911	10	10
ALBANY	1912	10	10
	1913	10	10
ALBANY	1914	10	10
	1915	10	10
ALBANY	1916	10	10
	1917	10	10
ALBANY	1918	10	10
	1919	10	10
ALBANY	1920	10	10
	1921	10	10
ALBANY	1922	10	10
	1923	10	10
ALBANY	1924	10	10
	1925	10	10
ALBANY	1926	10	10
	1927	10	10
ALBANY	1928	10	10
	1929	10	10
ALBANY	1930	10	10
	1931	10	10
ALBANY	1932	10	10
	1933	10	10
ALBANY	1934	10	10
	1935	10	10
ALBANY	1936	10	10
	1937	10	10
ALBANY	1938	10	10
	1939	10	10
ALBANY	1940	10	10
	1941	10	10
ALBANY	1942	10	10
	1943	10	10
ALBANY	1944	10	10
	1945	10	10
ALBANY	1946	10	10
	1947	10	10
ALBANY	1948	10	10
	1949	10	10
ALBANY	1950	10	10
	1951	10	10
ALBANY	1952	10	10
	1953	10	10
ALBANY	1954	10	10
	1955	10	10
ALBANY	1956	10	10
	1957	10	10
ALBANY	1958	10	10
	1959	10	10
ALBANY	1960	10	10
	1961	10	10
ALBANY	1962	10	10
	1963	10	10
ALBANY	1964	10	10
	1965	10	10
ALBANY	1966	10	10
	1967	10	10
ALBANY	1968	10	10
	1969	10	10
ALBANY	1970	10	10
	1971	10	10
ALBANY	1972	10	10
	1973	10	10
ALBANY	1974	10	10
	1975	10	10
ALBANY	1976	10	10
	1977	10	10
ALBANY	1978	10	10
	1979	10	10
ALBANY	1980	10	10
	1981	10	10
ALBANY	1982	10	10
	1983	10	10
ALBANY	1984	10	10
	1985	10	10
ALBANY	1986	10	10
	1987	10	10
ALBANY	1988	10	10
	1989	10	10
ALBANY	1990	10	10
	1991	10	10
ALBANY	1992	10	10
	1993	10	10
ALBANY	1994	10	10
	1995	10	10
ALBANY	1996	10	10
	1997	10	10
ALBANY	1998	10	10
	1999	10	10
ALBANY	2000	10	10
	2001	10	10
ALBANY	2002	10	10
	2003	10	10
ALBANY	2004	10	10
	2005	10	10
ALBANY	2006	10	10
	2007	10	10
ALBANY	2008	10	10
	2009	10	10
ALBANY	2010	10	10
	2011	10	10
ALBANY	2012	10	10
	2013	10	10
ALBANY	2014	10	10
	2015	10	10
ALBANY	2016	10	10
	2017	10	10
ALBANY	2018	10	10
	2019	10	10
ALBANY	2020	10	10
	2021	10	10
ALBANY	2022	10	10
	2023	10	10
ALBANY	2024	10	10
	2025	10	10
ALBANY	2026	10	10
	2027	10	10
ALBANY	2028	10	10
	2029	10	10
ALBANY	2030	10	10
	2031	10	10
ALBANY	2032	10	10
	2033	10	10
ALBANY	2034	10	10
	2035	10	10
ALBANY	2036	10	10
	2037	10	10
ALBANY	2038	10	10
	2039	10	10
ALBANY	2040	10	10
	2041	10	10
ALBANY	2042	10	10
	2043	10	10
ALBANY	2044	10	10
	2045	10	10
ALBANY	2046	10	10
	2047	10	10
ALBANY	2048	10	10
	2049	10	10
ALBANY	2050	10	10
	2051	10	10
ALBANY	2052	10	10
	2053	10	10
ALBANY	2054	10	10
	2055	10	10
ALBANY	2056	10	10
	2057	10	10
ALBANY	2058	10	10
	2059	10	10
ALBANY	2060	10	10
	2061	10	10
ALBANY	2062	10	10
	2063	10	10
ALBANY	2064	10	10
	2065	10	10
ALBANY	2066	10	10
	2067	10	10
ALBANY	2068	10	10
	2069	10	10
ALBANY	2070	10	10
	2071	10	10
ALBANY	2072	10	10
	2073	10	10
ALBANY	2074	10	10
	2075	10	10
ALBANY	2076	10	10
	2077	10	10
ALBANY	2078	10	10
	2079	10	10
ALBANY	2080	10	10
	2081	10	10
ALBANY	2082	10	10
	2083	10	10
ALBANY	2084	10	10
	2085	10	10
ALBANY	2086	10	10
	2087	10	10
ALBANY	2088	10	10
	2089	10	10
ALBANY	2090	10	10
	2091	10	10
ALBANY	2092	10	10
	2093	10	10
ALBANY	2094	10	10
	2095	10	10
ALBANY	2096	10	10
	2097	10	10
ALBANY	2098	10	10
	2099	10	10
ALBANY	2100	10	10
	2101	10	10
ALBANY	2102	10	10
	2103	10	10
ALBANY	2104	10	10
	2105	10	10
ALBANY	2106	10	10
	2107	10	10
ALBANY	2108	10	10
	2109	10	10
ALBANY	2110	10	10
	2111	10	10
ALBANY	2112	10	10
	2113	10	10
ALBANY	2114	10	10
	2115	10	10
ALBANY	2116	10	10
	2117	10	10
ALBANY	2118	10	10
	2119	10	10
ALBANY	2120	10	10
	2121	10	10
ALBANY	2122	10	10
	2123	10	10
ALBANY	2124	10	10
	2125	10	10
ALBANY	2126	10	10
	2127	10	10
ALBANY	2128	10	10
	2129	10	10
ALBANY	2130	10	10
	2131	10	10
ALBANY	2132	10	10
	2133	10	10
ALBANY	2134	10	10
	2135	10	10
ALBANY	2136	10	10
	2137	10	10
ALBANY	2138	10	10
	2139	10	10
ALBANY	2140	10	10
	2141	10	10
ALBANY	2142	10	10
	2143	10	10
ALBANY	2144	10	10
	2145	10	10
ALBANY	2146	10	10
	2147	10	10
ALBANY	2148	10	10
	2149	10	10
ALBANY	2150	10	10
	2151	10	10
ALBANY	2152	10	10
	2153	10	10
ALBANY	2154	10	10
	2155	10	10
ALBANY	2156	10	10
	2157	10	10
ALBANY	2158	10	10
	2159	10	10
ALBANY	2160	10	10
	2161	10	10
ALBANY	2162	10	10
	2163	10	10
ALBANY	2164	10	10
	2165	10	10
ALBANY	2166	10	10
	2167	10	10
ALBANY	2168	10	10
	2169	10	10
ALBANY	2170	10	10
	2171	10	10
ALBANY	2172	10	10
	2173	10	10
ALBANY	2174	10	10
	2175	10	10
ALBANY	2176	10	10
	2177	10	10
ALBANY	2178	10	10
	2179	10	10
ALBANY	2180	10	10
	2181	10	10
ALBANY	2182	10	10
	2183	10	10
ALBANY	2184	10	10
	2185	10	10
ALBANY	2186	10	10
	2187	10	10
ALBANY	2188	10	10
	2189	10	10
ALBANY	2190	10	10
	2191	10	10
ALBANY	2192	10	10
	2193	10	10
ALBANY	2194	10	10
	2195	10	10
ALBANY	2196	10	10
	2197	10	10
ALBANY	2198	10	10
	2199	10	10
ALBANY	2200	10	10
	2201	10	10
ALBANY	2202	10	10
	2203	10	10
ALBANY	2204	10	10
	2205	10	10
ALBANY	2206	10	10
	2207	10	10
ALBANY	2208	10	10
	2209	10	10
ALBANY	2210	10	10
	2211	10	10
ALBANY	2212	10	10
	2213	10	10
ALBANY	2214	10	10
	2215	10	10
ALBANY	2216	10	10
	2217	10	10
ALBANY	2218	10	10
	2219	10	10
ALBANY	2220	10	10
	2221	10	10
ALBANY	2222	10	10
	2223	10	10
ALBANY	2224	10	10
	2225	10	10
ALBANY	2226	10	10
	2227	10	10
ALBANY	2228	10	10
	2229	10	10
ALBANY	2230	10	10
	2231	10	10
ALBANY	2232	10	10
	2233	10	10
ALBANY	2234	10	10
	2235	10	10
ALBANY	2236	10	10
	2237	10	10
ALBANY	2238	10	10
	2239	10	10
ALBANY	2240	10	10
	2241	10	10
ALBANY	2242	10	10
	2243	10	10
ALBANY	2244	10	10
	2245	10	10
ALBANY	2246	10	10
	2247	10	10
ALBANY	2248	10	10
	2249	10	10
ALBANY	2250	10	10
	2251	10	10
ALBANY	2252	10	10
	2253	10	10
ALBANY	2254	10	10
	2255	10	10
ALBANY	2256	10	10
	2257	10	10
ALBANY	2258	10	10
	2259	10	10
ALBANY	2260	10	10
	2261	10	10
ALBANY	2262	10	10
	2263	10	10
ALBANY	2264	10	

Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.

TOWN.	Diphtheria.	Tuber- culosis.	Typhoid Fever.	Malaria,	Total. Primary.	Totals.
Woodbine.						
Woodbridge.						
Woodbury						
Woodstown						
Blank						
Totals.....						

This table shows very clearly the rapid growth of this department of the laboratory since its beginning eight years ago. No more convincing demonstration could be made of the usefulness of the department to the physician, and through him to the public. The number of specimens examined each year steadily increases, nor is there any reason to suppose that this large increase will not continue for some years, although it is to be expected that, when the time arrives when all or almost all physicians throughout the State make use of the laboratory regularly, the rate of increase will diminish until it runs approximately parallel with the increase of population.

LIST OF REPOSITORIES FOR MAILING CASES.

Town.	Repository.	Mail Leaves.
Allentown	Carslake's Pharmacy.....	4.00 p. m.
Alloway	Dr. W. L. Ewen.....	
Andover	Dr. J. C. Clark.....	
Annandale	Dr. W. E. Berkaw.....	
Arlington	Dr. J. A. Exton.....	
"	Dr. A. A. Strasser.....	
Asbury	Dr. F. J. LaRiew.....	
Asbury Park.....	Board of Health.....	3.00 p. m.
Atlantic City.....	Board of Health.....	
"	Atlantic City Hospital.....	
"	A. D. Cuskaden, druggist.....	
"	H. H. Deakyne, druggist.....	
"	Wm. F. Ridgway, druggist.....	
"	W. C. Wescott, druggist.....	
Atlantic Highlands.....	Anchor and Shield Pharmacy.....	
Bakersville	A. R. Vickers.....	
Basking Ridge.....	Dr. F. C. Jones.....	3.00 p. m.
Bay Head.....	Dr. W. H. Katzenbach.....	
Bayonne	Bayonne Hospital.....	2.00 p. m.
"	F. N. L'Estrange, druggist.....	
"	Charles H. Landell.....	
Belleville	A. H. Osborne, druggist.....	
Belmar	Board of Health.....	4.00 p. m.
"	Seaside Pharmacy.....	" "
Belvidere	Faust Bros., druggists.....	
"	Dr. Wm. J. Burd.....	
Berlin	Board of Health.....	
"	W. W. Miller, druggist.....	
Bernardsville	Dr. J. Meigh.....	1.00 p. m.
"	F. C. Sutphin.....	
Beverly	Dr. A. W. Taylor.....	
"	Dr. Roberts.....	
Blairstown	Dr. W. C. Allen.....	
Bloomfield	W. W. Keyler, druggist.....	
"	Geo. M. Wood, druggist.....	

This table shows very clearly the rapid growth of this department of the laboratory since its beginning eight years ago. No more convincing demonstration could be made of the usefulness of the department to the physician, and through him to the public. The number of specimens examined each year steadily increases, nor is there any reason to suppose that this large increase will not continue for some years, although it is to be expected that, when the time arrives when all or almost all physicians throughout the State make use of the laboratory regularly, the rate of increase will diminish until it runs approximately parallel with the increase of population.

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Alloway	Dr. W. L. Ewen.....	
Andover	Dr. J. C. Clark.....	
Annandale	Dr. W. E. Berkaw.....	
Arlington	Dr. J. A. Exton.....	
"	Dr. A. A. Strasser.....	
Asbury	Dr. F. J. LaRiew.....	
Asbury Park.....	Board of Health.....	3.00 p. m.
Atlantic City.....	Board of Health.....	
"	Atlantic City Hospital.....	
"	A. D. Cuskaden, druggist.....	
"	H. H. Deakyne, druggist.....	
"	Wm. F. Ridgway, druggist.....	
"	W. C. Wescott, druggist.....	
Atlantic Highlands.....	Anchor and Shield Pharmacy.....	
Bakersville	A. R. Vickers.....	
Basking Ridge.....	Dr. F. C. Jones.....	3.00 p. m.
Bay Head.....	Dr. W. H. Katzenbach.....	
Bayonne	Bayonne Hospital.....	2.00 p. m.
"	F. N. L'Estrange, druggist.....	
"	Charles H. Landell.....	
Belleville	A. H. Osborne, druggist.....	
Belmar	Board of Health.....	4.00 p. m.
"	Seaside Pharmacy.....	" "
Belvidere	Faust Bros., druggists.....	
"	Dr. Wm. J. Burd.....	
Berlin	Board of Health.....	
"	W. W. Miller, druggist.....	
Bernardsville	Dr. J. Meigh.....	1.00 p. m.
"	F. C. Sutphin.....	
Beverly	Dr. A. W. Taylor.....	
"	Dr. Roberts.....	
Blairstown	Dr. W. C. Allen.....	
Bloomfield	W. W. Keyler, druggist.....	
"	Geo. M. Wood, druggist.....	

**Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.**

This table shows very clearly the rapid growth of this department of the laboratory since its beginning eight years ago. No more convincing demonstration could be made of the usefulness of the department to the physician, and through him to the public. The number of specimens examined each year steadily increases, nor is there any reason to suppose that this large increase will not continue for some years, although it is to be expected that, when the time arrives when all or almost all physicians throughout the State make use of the laboratory regularly, the rate of increase will diminish until it runs approximately parallel with the increase of population.

LIST OF REPOSITORIES FOR MAILING CASES.

Town.	Repository.	Mail Leaves.
Allentown	Carslake's Pharmacy.....	4.00 p. m.
Alloway	Dr. W. L. Ewen.....	
Andover	Dr. J. C. Clark.....	
Annandale	Dr. W. E. Berkaw.....	
Arlington	Dr. J. A. Exton.....	
"	Dr. A. A. Strasser.....	
Asbury	Dr. F. J. LaRiew.....	
Asbury Park.....	Board of Health.....	3.00 p. m.
Atlantic City.....	Board of Health.....	
"	Atlantic City Hospital.....	
"	A. D. Cuskaden, druggist.....	
"	H. H. Deakyne, druggist.....	
"	Wm. F. Ridgway, druggist.....	
"	W. C. Wescott, druggist.....	
Atlantic Highlands.....	Anchor and Shield Pharmacy.....	
Bakersville	A. R. Vickers.....	
Basking Ridge.....	Dr. F. C. Jones.....	3.00 p. m.
Bay Head.....	Dr. W. H. Katzenbach.....	
Bayonne	Bayonne Hospital.....	2.00 p. m.
"	F. N. L'Estrange, druggist.....	
"	Charles H. Landell.....	
Belleville	A. H. Osborne, druggist.....	
Belmar	Board of Health.....	4.00 p. m.
"	Seaside Pharmacy.....	" "
Belvidere	Faust Bros., druggists.....	
"	Dr. Wm. J. Burd.....	
Berlin	Board of Health.....	
"	W. W. Miller, druggist.....	
Bernardsville	Dr. J. Meigh.....	1.00 p. m.
"	F. C. Sutphin.....	
Beverly	Dr. A. W. Taylor.....	
"	Dr. Roberts.....	
Blairstown	Dr. W. C. Allen.....	
Bloomfield	W. W. Keyler, druggist.....	
"	Geo. M. Wood, druggist.....	

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examinations made should in every case communicate with the director of the laboratory, stating in detail the character of the examination desired, before sending the specimen.

A tabulated summary of the work of the laboratory during the year is given in Table I. This is arranged by weeks instead of by months as was formerly the custom, in order to correspond with the weekly reports which are regularly made by the laboratory.

Table 1.—Showing the Number of Specimens Examined During the Year, Arranged by Weeks.

WEEK ENDING.			Diphtheria.		Tuberculosis.		Typhoid Fever.		Malaria.		Miscella- neous.		Totals.
			Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	
Oct.	1-3,	1903....	12	10	24	3	5	2	.....	1	.....	.....	57
"	10	"	29	13	38	5	24	4	3	.....	1	.....	117
"	17	"	26	14	37	4	17	3	.....	1	1	.....	103
"	24	"	45	11	35	4	20	2	2	.....	.....	.....	119
"	31	"	29	25	25	6	17	4	.....	.....	2	.....	108
Nov.	7	"	54	39	32	5	20	1	2	.....	.....	.....	153
"	14	"	46	27	32	5	18	3	.....	2	1	.....	134
"	21	"	36	23	37	3	28	1	.....	.....	2	.....	130
"	28	"	39	25	37	5	19	1	1	.....	2	.....	129
Dec.	5	"	51	24	35	4	9	5	2	.....	1	.....	131
"	12	"	41	25	40	8	13	3	1	1	1	.....	133
"	19	"	58	30	36	3	16	3	.....	.....	3	.....	149
"	26	"	41	54	33	6	23	6	1	.....	.....	.....	164
Jan.	2,	1904....	44	35	36	6	17	9	.....	.....	.....	.....	147
"	9	"	42	45	34	3	25	3	2	.....	.....	.....	154
"	16	"	60	28	41	5	17	5	3	.....	.....	.....	159
"	23	"	53	25	39	7	17	1	1	.....	3	.....	146
"	30	"	40	32	45	8	17	3	2	.....	.....	.....	147
Feb.	6	"	39	31	31	8	22	5	.....	.....	1	.....	137
"	13	"	46	29	43	6	27	.....	3	.....	.....	.....	154
"	20	"	34	23	31	8	32	6	1	.....	1	.....	136
"	27	"	41	16	47	5	24	2	1	.....	2	.....	138
Mar.	5	"	35	26	55	7	23	4	.....	1	.....	.....	151
"	12	"	42	23	50	6	18	4	.....	.....	.....	.....	143
"	19	"	43	28	37	5	21	3	1	.....	1	.....	139
"	26	"	24	22	45	8	25	6	1	.....	2	1	134
Apr.	2	"	25	11	39	2	14	1	1	.....	.....	.....	93
"	9	"	31	12	35	5	22	9	3	.....	1	1	119
"	16	"	30	17	53	6	14	5	4	.....	2	.....	131
"	23	"	24	21	49	6	8	5	1	1	.....	.....	115
"	30	"	37	25	52	4	19	1	.....	.....	2	.....	140
May	7	"	23	29	47	4	16	3	1	1	.....	1	125
"	14	"	26	16	48	5	18	2	.....	.....	1	.....	116
"	21	"	45	19	46	6	18	3	1	.....	1	.....	139
"	28	"	29	38	51	10	20	9	3	1	2	.....	163
June	4	"	20	24	39	8	15	1	.....	1	1	.....	109
"	11	"	25	17	40	9	14	3	1	.....	1	.....	110
"	18	"	25	21	47	5	15	1	1	1	1	.....	116
"	25	"	30	14	40	3	10	6	1	.....	1	.....	105
July	2	"	17	20	27	5	14	4	2	.....	1	.....	90
"	9	"	32	10	27	8	19	4	5	1	1	.....	107
"	16	"	21	26	45	8	9	3	2	.....	4	1	119

208 REPORT OF THE BOARD OF HEALTH.

Town.	Repository.	Mail Leaves.
"	.....Eugene A. McFadden, druggist.....	" "
"	.....Adam's Pharmacy.....	" "
Hackettstown	.....C. V. Rea, druggist.....	12.30 p. m.
"	.....Dr. L. Farrow.....	" "
Haddonfield	.....R. Willard, druggist.....	11.00 a. m.
Hainesport	.....Dr. W. C. Parry.....	.....
Hamburg	.....Dr. J. G. Coleman.....	.....
Hammonton	.....Dr. A. I. Hunt.....	.....
Hamilton Square	.....Board of Health.....	12.00 m.
Harrison	.....Squire's Pharmacy.....	1.00 p. m.
Hibernia	.....Dr. R. C. Lumsden.....	.....
High Bridge	.....W. C. Alpaugh, druggist.....	.....
Hightstown	.....D. H. Cunningham, druggist.....	.....
Hoboken	.....Dr. H. B. Rue.....	2.30 p. m.
"	.....Board of Health.....	" "
"	.....Wm. Kamlah, druggist.....	" "
"	.....A. Schmidt, druggist.....	" "
"	.....Victor Schmidt & Co., druggists.....	" "
"	.....Chas. Sunkel, druggist.....	" "
Hopewell	.....Geo. E. Pierson, druggist.....	.....
Imlaystown	.....Dr. F. C. Price.....	.....
Irvington	.....Dr. A. C. Christian.....	.....
"	.....Harry McDavitt.....	.....
Jamesburg	.....State Reform School.....	5.00 p. m.
Jersey City	.....Maxwell Abernathy, druggist.....	.....
"	.....L. E. Carpenter, druggist.....	.....
"	.....Frederick W. Frey, druggist.....	.....
"	.....Jno. C. Gallagher, druggist.....	.....
"	.....Geo. White, druggist.....	.....
"	.....A. Tod, druggist.....	.....
"	.....H. Smellie, health inspector.....	.....
"	.....E. T. N. Stine, druggist.....	.....
"	.....Frank O. Cole, druggist.....	.....
"	.....Henry J. Lohman.....	.....
"	.....Wm. Buchbinder, druggist.....	.....
"	.....Lyons & Ziegler, druggists.....	.....
"	.....B. J. Bache, druggist.....	.....
"	.....R. E. Wilhelm, druggist.....	.....
"	.....Herman A. Bruckner, druggist.....	.....
"	.....Chas. H. Rogers, druggist.....	.....
"	.....Herman Roder, druggist.....	.....
"	.....Chas. Zoeller, druggist.....	.....
"	.....Herman W. Mayer, druggist.....	.....
"	.....James Foulke, druggist.....	.....
"	.....Lischke Bros., druggists.....	.....
Junction	.....Dr. Hooper.....	.....

210 REPORT OF THE BOARD OF HEALTH.

Town.	Repository.	Mail Leaves.
Nutley	Henry T. Lefferts, druggist.....	.....
Ocean City.....	Bourse Pharmacy.....	.....
Ogdensburg	Dr. L. C. Burd.....	.....
Old Bridge.....	Dr. I. C. Crandall.....	.....
Orange	Orange Memorial Hospital.....	3.50 p. m.
“	Abram Master.....	“ “
“	L. E. Fiesler, druggist.....	“ “
“	S. V. Beegle, druggist.....	“ “
Oxford	James A. Allen, druggist.....	.....
Palmyra	Dr. L. L. Sharp.....	.....
Park Ridge.....	Dr. H. C. Neer.....	.....
Parsippany	Dr. E. P. Cooper.....	.....
Passaic	Carroll Drug Co.....	.....
“	St. Mary's Hospital.....	.....
“	Berger & Richter, druggists.....	.....
“	Dr. H. C. Reynolds.....	.....
“	Otto Lane, druggist.....	.....
“	Van Riper & Co., druggists.....	.....
Paterson	Board of Health.....	12.00 m.
“	Dr. W. H. Lowe.....	“ “
“	Dr. H. S. Willard.....	“ “
“	Gurdon E. Pellett, druggist.....	“ “
Penn Grove.....	Robbin's Pharmacy.....	.....
Perth Amboy.....	Board of Health.....	.....
Phillipsburg	Dr. J. H. Griffith.....	.....
Pitman	Dr. L. N. Slaughter.....	10.00 a. m.
Plainfield	Board of Health.....	2.00 p. m.
“	Dr. W. H. Murray.....	“ “
“	Muhlenberg Hospital.....	“ “
Pleasantville	Dr. J. H. Sorth, Jr.....	.....
Pompton Lakes.....	Dr. J. C. Morgan.....	.....
Port Norris.....	Dr. S. T. Day.....	.....
Port Oram.....	Dr. H. W. Kice.....	.....
Princeton	Marsh & Burke, druggists.....	5.00 p. m.
“	W. L. Briner, druggist.....	“ “
Rahway	Geo. F. Brown, druggist.....	4.00 p. m.
“	New Jersey Reformatory.....	“ “
Ramsey	Vanderbeek Drug Co.....	.....
Raritan	Board of Health.....	2.00 p. m.
Red Bank.....	Chas. A. Minton & Co., druggists.....	2.30 p. m.
Ridgefield Park.....	Dr. Henry C. Elsing.....	.....
Ridgewood	H. A. Tice, druggist.....	.....
“	Dr. W. L. Vroom.....	.....
Riverside	Warren C. Pine, druggist.....	4.00 p. m.
Riverton	Dr. Alex. Marcy, Jr.....	.....
Rockaway	Dr. Geo. H. Foster.....	2.30 p. m.

Table 6.—Continued.—Results of Analyses of Samples From Wells on Dairy Premises. Parts Per Million.

No.	DATE.	LOCALITY.	Odor, cold.	Odor, hot.	NITROGEN.				Chlorine.	B. coli communis present in.
					As Ammonia.	By Alkaline Permanganate.	As Nitrites.	As Nitrites.		
D 3022	" 16	South Eatontown.....	2 o	2 o	.000	.036	.002	2.400	25.0	1cc.
D 1988	July 26	Springfield.....	0	0	.008	.018	.002	1.600	7.5	1cc.
A 3252	Aug. 20	Stirling.....	1 mouldy	2 mouldy	.060	.084	.002	1.600	4.5	10cc.
A 3096	July 16	Sussex	0	1 e	.016	.088	.0015	2.800	5.0	1cc.
A 3097	" 16	"	0	1 e	.034	.110	.000	.012	2.0	10cc.
D 3009	Aug. 30	Tinton Falls	1 e	1 v	.002	.028	.002	5.600	46.0	10cc.
D 3010	" 30	"	2 v	2 v	.014	.044	.004	2.400	12.0	10cc.
D 3011	" 30	"	1 o	1 o	.000	.036	.002	.400	20.0	10cc.
A 3094	July 16	Wallkill.....	1 e	1 e	.046	.110	.004	.....	3.0	1cc.
D 3021	Sept. 16 1904	Wayside.....	1 e	0	.000	.028	.001	16.000	19.0	1cc.
D 1986	July 26	Westfield.....	0	0	.000	.026	.001	2.400	7.0	1cc.
D 1984	" 26	Westfield Township.....	1 woody	.....	.000	.018	.001	.360	9.6	10cc.
D 3043	Sept. 24	"	0	0	.004	.018	.005	2.000	9.0	10cc.
D 1623	Apr. 15	Wickatunk. ....	.....	.....	.000	.064	.000	2.500	5.0	none
E 736	Sept. 2	Blank	0	0	.006	.034	.004	12.000	12.0	10cc.

and kept perfectly homogeneous throughout, yet filtration through natural soil for short distances cannot be relied upon, because it is impossible to maintain a homogeneous structure in it, and channels form which convey the unaltered sewage for long distances. This is especially true in some sections of this State where the underlying rock is a soft friable red shale, seamed by innumerable stratification cracks whose inclination is but slightly removed from horizontal. In such rock water travels rapidly for long distances, and a focus of pollution may make itself felt over a large area.

During the year analyses of water samples from wells located at certain railroad stations in the State have been made, to determine whether or not these wells furnish satisfactory drinking water. It is gratifying to be able to state that the railroad companies, when notified that wells which were used to provide water for drinking purposes in railroad stations were polluted, promptly abandoned their use. The following table shows the results of the analyses of these samples:

Table 8.—Results of Analyses of Water Taken From Wells at Railway Stations.
Parts Per Million.

No.	DATE.	LOCALITY.	Odor, cold.	Odor, hot.	NITROGEN.					Chlorine.	B. coli Communis present in.
					As Ammonia.	By Alkaline Permanganate.	As Nitrites.	As Nitrates.			
D 1439	Jan. 25, 1904	Atlantic Highlands..	0	0	.004	.039	.005	3.080	17.4	none	
D 1497	Feb. 20	Bayonne	0	0	.040	.144	.006	2.720	29.0	none	
D 1603	Apr. 6	"	.....	.....	.002	.050	.002	2.240	22.0	10cc.
D 1604	" 6	"	.....	.....	.002	.042	.006	8.600	29.0	10cc.
D 1485	Feb. 16	Belford	0	0	too high to read	.296	.005	2.800	13.0	none	
D 1620	Apr. 15	Morganville	.....	.....	.024	.066	.014	11.320	16.5	none
D 1450	Jan. 29	Rockaway	0	1 e	very high	very high	.024	16.000	86.7	none	

Besides the analyses already given, a few others for various purposes have been made, and the results will be found in the following table:

Table 8.—Miscellaneous Analyses of Water.
Parts per Million.

No.	DATE.	LOCALITY.	Odor, cold.	Odor, hot,	NITROGEN.				Chlorine.	B. coli communis present in.
					as ammonia.	by alkaline permanganate.	as nitrates.	as nitrates.		
A 3091	July 14, 1904	Carr's Quarries	0	2 e	.004	.036	.001	.200	2.0	1cc.
E 636	Jan. 5	" Huntsville	1 o	3 o	.028	.276	.048	1.800	8.0	none
D 1449	" 28	" "	2 m	4 m	.000	.074	.032	.800	9.3	10cc.
D 1746	May 23	" Keyport	2 s	5 s	.158	.180	.018	.....	114.5	1cc.
E 714	Aug. 18	" Neshanic.	.....	.....	.004	.038	.001	5.600	30.4	1cc.

Table 9.—Examination of Shellfish.

Date.	No.	Kind.	Locality.	Average No. B. coli per oyster.	No. of B.coli per cem. in water from which oysters were taken.
1904.					
June 17	.....	Clams ..	From Thoroughfare back of Atlantic City, near sewer outlet	100,000	.....
July 24	E 700	" ...	Atlantic City. Thoroughfare at sewer outlet	100,000	.....
" 24	E 701	" ...	Atlantic City, Thoroughfare 1½ miles north of sewer outlet.....	10,000	.....
" 24	E 702	" ...	Atlantic City. Thoroughfare 1½ miles south of sewer outlet.....	10,000	.....
Sept. 13	D 1313	Oysters.	Greenwich Piers, from floats in Cohansey Creek.....	1,000	.....
Oct. 8	D 3068	" ..	Rahway River, 4 miles below Rahway.....	10,000	0.1
" 24	D 3108	" ..	Bivalve. From floats on Maurice River...	1,000	1.0
" 26	D 3112	" ..	Maurice River Cove. Ground No. 358.	50	0.0

At the present time the data are quite inadequate to permit an intelligent interpretation of results. It will be seen that the oysters thus for examined with the exception of Sample D 3,112, which was taken from a locality far removed from sources of possible pollution, contain the colon bacillus in very large numbers, but it must be remembered that these oysters came from localities which undoubtedly received polluted water. It will be necessary before it is possible to pass judgment on the results of bacterial analysis to make an extended series of observations on oysters from various localities, both good and bad. Houston (*) has shown that coli-like organisms may be found in large numbers in oysters taken from beds which are apparently unpolluted. His tests are hardly complete enough to make it certain that the organisms isolated by him were really

*4th Report of Commissioners on Treatment and Disposal of Sewage. (Vol. III, 1904).

ting to be more careful to call this mixture "compound molasses," a misleading term, whose use should not be permitted. The word "compound" as applied to adulterated foods has been grossly abused by manufacturers, who seem to regard it as a certain safeguard against prosecution. It would be well if makers were compelled to label adulterated articles now sold as "compound" with a formula stating exactly the nature and amounts of the various ingredients used in their preparation.

The following table shows the result of the examination of foods other than milk:

Table 11.--Foods Other Than Milk.

Article.	Above Standard.	Below Standard.	Total.	Percentage of adulteration.
Buckwheat Flour	1		1	0.
Butter.	19	15	34	44.1
Candy.	1		1	0.
Canned Corned Beef.	1		1	0.
Cocoa	67	12	79	15.1
Coffee	8	5	13	38.4
Condensed Milk.	1		1	0.
Extract of Lemon.....	2	16	18	88.8
Honey.....	35	13	48	27.0
Lard.....	63	2	65	3.0
Maple Syrup.....	36	5	41	12.1
Molasses.....	156	83	239	34.7
Oleomargarine.....		3	3	100.
Orangeade.....	3		3	0.
Syrup.....	1	1	2	50.
Vinegar.....	214	277	491	56.4
Miscellaneous.....		2	2	100.
Totals.....	608	434	1042	41.6

pensed in the ordinary manner. This claim has no basis of fact. Experiments made in this laboratory show that the loss of camphor from camphor liniment made and stored in the usual way is so slight as to be almost negligible, and certainly will not account for the deficiency of camphor in most of the samples received.

During the coming year the variety of drugs examined will be increased and the total number will also be increased. In view of the large percentage of adulteration it seems that the work of the laboratory in this direction is very necessary and might properly be extended.

256 REPORT OF THE BOARD OF HEALTH.

The water supply is obtained from four reservoirs located on grounds belonging to the institution, on one of which the ice supply is harvested. A sample of water taken for analysis was drawn from a tap in the main building which is supplied from the upper reservoir. Sample marked D-3,204.

Beef is bought on the hoof and slaughtered on the institution grounds but the hogs which are raised thereon are sold alive.

A large amount of farm and garden produce is raised on the grounds. Groceries are purchased in quantities to meet the requirements of the institution. The following samples of food were taken from the store room in the institution and forwarded to the State Laboratory of Hygiene for analysis: Extract of vanilla, extract of lemon, butter, ground mustard, ground pepper, ground cloves, molasses, syrup, ground alspice, lard and milk.

shipped?—Over night. If shipped, to whom, and where?—Distributed in Red Bank. Temperature of milk when delivered to customers?—Not known. Quarts sold from cans?—About 80 Quarts sold in bottles?—Three of four. Ever run short?—Yes. If so, where is supply obtained?—From other dealers. How many persons handle the milk?—Three. All in good health?—So stated. Date of last sickness among persons on dairy premises?—None reported.

for the summer and fall. It is argued that if this method were not followed that, with the difficulties which now exist in getting labor to work upon farms, it would be almost impossible for the farmers in Burlington County to secure the help which is necessary to market crops. For these reasons the taxpayers in the county are willing to assist in supporting such individuals during the winter. It is scarcely credible that such conditions should be permitted to exist for any reason, and steps should be taken to urge upon the Board of Freeholders, and the public-spirited citizens of the county, the immediate necessity of providing ample accommodations for the care of such prisoners during the winter.

The only relief that will be permanent is the construction of a new jail.

ceiling
 forty-two feet
 nt. The total
 allows for fifty-eight
 • t of air space, and a
 ere eighty-nine inma
 in cubic feet per inmate.

15. Whitelegge's Table.

	Quarantine to be required after ex- posure to infection.	EARLIEST DATE OF RETURN TO SCHOOL AFTER AN ATTACK.
Small-pox.....	18 days..	When all scabs have fallen off.
Chicken-pox.	18 days..	When all scabs have fallen off.
Scarlet Fever	14 days..	{ Six weeks, and then only if no desquamation or sore throat.
Diphtheria.....	12 days .	{ Three weeks, if convalescence is complete, and no bacilli remain.
Measles.....	16 days..	{ Three weeks, if all desquamation and cough have ceased.
Whooping-Cough ..	21 days..	{ Six weeks from the commencement of the whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier, if all cough be gone.
Rötheln, or Rubella	16 days..	{ Two to three weeks, according to the nature of the case.
Mumps	24 days..	Four weeks, if all swelling has subsided.

16. Bacteriological Diagnosis. —The State Board of Health supplies facilities for the examination of specimens in cases of suspected diphtheria, tuberculosis, typhoid fever and malaria. The State laboratory is located in Trenton, and the service, rendered free of charge, is prompt and satisfactory. By an order of the postal department, the transportation of diseased tissues through the mails is permitted under certain restrictions, when said tissues are enclosed in specified mailing-cases. These mailing-cases are supplied, without charge, upon request, to physicians, health officers and school officers, and repositories have been established in many parts of the State where the mailing-cases may at all times be obtained. Reports showing the result of the examination will be sent out from the laboratory within twenty-four hours. Reports will be sent by telegraph if a request is sent with the specimen.

In cases where diphtheria is found to exist, specimens should subsequently be sent, at intervals of a few days, for the purpose of learning when the diphtheria bacilli have ceased to exist in the throat, and to guide in the removal of the isolation restrictions.

No specimen will be examined if it is sent through the mails otherwise than in one of the packages furnished by the laboratory.

Period of observation of exposed persons.—Fifteen days from last exposure to the infection.

Infective period.—From the earliest appearance of symptoms until convalescence is well established. The catarrhal stage preceding the eruption is very infectious.

Sources of infection—

1. From a previous case of measles.

MUMPS.

Incubation period.—Least, fourteen days; average, twenty-one days; greatest, twenty-five days.

Period of observation of exposed persons.—Twenty-five days from last exposure to infection.

Infective period.—From the onset of the prodromal stage (which may last three or four days) and for two or three weeks subsequent to the appearance of the parotitis. The chance of the infection being propagated diminishes progressively from the onset of the parotitis.

Sources of infection—

1. From a previous case of mumps.
2. From infected articles.

GERMAN MEASLES.

Incubation period.—Least, five days; average, eighteen days; greatest, twenty-one days.

Period of observation of exposed persons.—Twenty-one days from last exposure to infection.

Infective period.—From the onset of the prodromal or pre-eruptive stage until the cessation of desquamation. ..

Sources of infection—

1. From a previous case of German measles.
2. From infected articles.

INFLUENZA.

Incubation period.—Least, less than twenty-four hours; average, three to four days; greatest, five days.

Period of observation of exposed persons.—Five days from last exposure to infection.

Infective period.—From the earliest onset of the symptoms until convalescence is well established.

Sources of infection—

1. From a previous case of influenza.
2. From infected articles.

WHOOPIING-COUGH.

Incubation period.—Least, seven days; average, not determined; greatest, twenty-one days.

Period of observation of exposed persons.—Twenty-one days from last exposure to the infection.

Infective period.—During the whole of the illness from the onset of the earliest catarrhal symptoms.

Sources of infection—

1. From a previous case of whooping-cough.
2. From infected articles.

SMALL-POX.

Incubation period.—Least, nine days;* average, twelve days; greatest, fifteen days.

Period of observation of exposed persons.—Fifteen days from date of last exposure to infection.

Infective period.—From the onset of initial symptoms until all scabs have been removed. The period of greatest infectivity is during the acute stage (vesicular and pustular). During the initial illness, and until the appearance of the rash, the liability to impart infection is not great; therefore, isolation of a case very shortly after the appearance of the eruption, when associated with measures of vaccination, re-vaccination and disinfection, is very commonly effective in preventing further spread of the disease.

Sources of infection—

1. From a previous case of the disease.
2. From infected articles.

CHICKEN-POX.

Incubation period.—Least, thirteen days; average, fourteen days; greatest, nineteen days.

Period of observation of exposed persons.—Nineteen days from date of last exposure to infection.

Infective period.—From the appearance of the eruption until this has entirely disappeared.

*In hemorrhagic small-pox there is some evidence that the incubation period is shortened to seven days.

Sources of infection—

1. From a previous case of the disease.
2. From infected articles.

TYPHOID FEVER.

Incubation period.—Least, eight days; average, twelve to fourteen days; greatest, twenty-three days.

Period of observation of exposed persons.—Twenty-three days from last exposure to infection.

Infective period.—The excreta are infectious throughout the whole course of the disease and for undetermined periods thereafter.

Sources of infection.—Water and food contaminated by the specific bacteria contained in the excretions of an enteric fever patient.

Polluted well waters may remain infective or retain the infection latent for long and unknown periods after the original mode of infection has ceased to operate.

The food most often implicated in the production of enteric fever is cows' milk which has acquired its infectiveness by the addition to it of water polluted by excreta; or by contact with cans and utensils which have been infected by polluted water, or by contact with unclean hands. Outbreaks of enteric fever have been traced to ice cream, herb beer and other drinks manufactured on premises where enteric fever has existed.

Shell-fish grown in waters receiving sewage have caused enteric fever, and flies have been shown to be carriers of the disease.

The attendants upon enteric fever patients may become infected by taking meals with unwashed hands.

Instances are known where washerwomen have contracted the disease from handling infected clothing or bedding of enteric fever patients. The infection may persist for several weeks in infected clothing and bedding shielded from contact with light and air.

TYPHUS FEVER.

Incubation period.—Average, seven days.

Period of observation of exposed persons.—Fourteen days from date of last exposure to infection.

Infective period.—From the commencement of illness until convalescence.

Sources of infection.—From a previous case of the disease. The virulence of the contagion is rapidly destroyed by fresh air and free ventilation combined with cleanliness, so that the spread of the infection is generally observed only in the overcrowded and unsanitary quarters of the poorest class of the population in industrial towns.

14. Vacher's Table.

DISEASES.	Time from inception to beginning of eruption.	Time from first precursory symptom to beginning of eruption.	Time from beginning of eruption to cessation of pyrexia.	Time from beginning of eruption till patient ceases to be ineffective.
Small-pox.....	13 days..... (range, 7 to 21 days.)	2 days..... (range, a few hours to 7 days.)	14 days.....	56 days.
Modified Small-pox...	13 days..... (range, 7 to 21 days.)	2 days..... (range, a few hours to 7 days.)	14 days.....	35 days.
Chicken pox.....	13 days..... (range, 4 to 17 days.)	2 days..... (range, a few hours to 3 days.)	5 days..... (range, 3 to 7 days.)	17 days.
Measles.....	14 days..... (range, 7 to 21 days.)	4 days..... (range, 1 day to 9 days.)	6 days.....	27 days.
German Measles.....	14 days..... (range, 10 to 20 days)	1 day..... (range, nil to 3 days.)	7 days.....	14 days.
Scarlatina.....	4 days..... (range, a few hours to 14 days.)	1 day.....	7 days.....	49 days.
Diphtheria.....	5 days..... (range, 1 day to 14 days.)	2 days..... (range, a few hours to 4 days.)	14 days.....	28 days.
Idiopathic Erysipelas.	5 Days (range, 2 to 14 days.)	1 day.....	14 days.....	35 days.
Typhus Fever.....	19 days..... (range, a few hours to 28 days.)	7 days..... (range, 3 to 7 days.)	7 days..... (range, 7 to 14 days.)	21 days.
Typhoid Fever.....	21 days..... (range, 1 day to 28 days.)	7 days..... (range, 7 to 12 days.)	21 days..... (range, 14 to 23 days.)	28 days.
Mumps.....	18 days..... (range, 8 to 25 days.)	4 days.....	7 days.....	21 days.

such diseases to other persons. Any person or persons offending against any of the provisions of this section, or obstructing any duly-authorized agent of this board in carrying out the instructions of the board shall forfeit and pay a penalty of fifty dollars.

Section 19. Whenever quarantine or isolation and separation of persons or property is ordered by this board, notice of said order shall be given to the persons affected thereby. Said notice shall be in writing and it may be served personally, left with some person at the infected house, or it may be posted upon the building or premises occupied by the infected persons or property. The requirements of said quarantine notices shall be obeyed by all persons, and no such notice or any other sign indicating the presence of communicable disease upon any premises shall be removed except by consent of this board. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of one hundred dollars.

Section 20. No person or article liable to propagate a communicable disease shall be brought within or removed from the limits of the ——— without the written permit and under the direction of the board of health thereof; and whenever it shall come to the knowledge of any person that such person or article has been brought within such limits, he shall immediately give notice thereof to the said board. No person shall, within this ———, without a permit from the board of health thereof, carry or remove from one building to any other, any person sick of any communicable disease, nor shall any person by any exposure of any individual sick of any communicable disease, or of the body of such person, or by any negligent act connected therewith, or in respect to the care or custody thereof, or by a needless exposure of himself, cause or contribute to or promote the spread of communicable disease. Any owner, lessee or any tenant of any dwelling in which there shall occur a case of communicable disease, shall immediately notify the board of health of the same, and until instructions are received from the said board, shall not permit any clothing or other property that may have been exposed to infection to be removed from the house. Nor shall any occupant of such a house change his residence elsewhere without the consent of the said board during the prevalence of any public danger from said disease. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.

REPORT
OF THE
BUREAU OF VITAL STATISTICS
OF THE
STATE OF NEW JERSEY
FOR THE
Year Ending December 31, 1903.

Following is the form of the certificate of death :

State of New Jersey--Bureau of Vital Statistics.

CERTIFICATE AND RECORD OF DEATH.

Full Name of Deceased.....
[If an infant not named, so state and give sex.]

Years.	Months.	Days.	Hours.
--------	---------	-------	--------

Age.....Color.....Occupation.....

Single, Married, Widowed or Divorced. Birthplace.....
[Cross out all but the right one.] [State or country.]

Last Place of Residence.....How long resident in this State.....

Place of Death.....
[If in a city, give name, street and number; if in township, give name and county; if in an institution, so state.]

Father's Name.....Country of Birth.....

Mother's Name.....Country of Birth.....

I hereby certify that I attended the deceased during the last illness, and that.....died on the.....day of.....190 , and that the cause of death was.....

.....Length of sickness.

Name of Undertaker.....
[Medical Attendant.]

Residence of Undertaker.....
[P. O. Address.]

Place of Burial.....

320 REPORT OF THE BOARD OF HEALTH.

It is advisable that every local board of health should keep a record of the deaths which occur in the sanitary district in which the board is located, together with the cause of death in each case and the location of the dwellings in which the deaths occur. Record books for this purpose should be furnished by the local municipal authorities. The following form of ruling and printing has been found to be convenient: *

Record of Deaths Occurring in.....in the Year....

PLACE OF	ent	ient	CAUSE OF	PLACE OF	MEDICAL	UNDER
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*If blanks of this description are used they should be provided by order of the local authorities. If state board of health is not authorized by law to furnish blanks for this purpose.

Table 43.—Births, Marriages and Deaths, by Counties, Cities, Boroughs, and Townships, and Totals for the State, for the Year Ending December 31, 1903, and Showing Increase and Decrease from Previous Year.

—◆—
ATLANTIC COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Absecon	9		8	5	2		6		9
Atlantic City.....	539		46	359		22	510		5
Buena Vista	49	4		17	9		21		6
Brigantine	0			0			3	3	
Egg Harbor City	52		7	20	4		31		8
Egg Harbor.....	40	5		7		5	47	10	
Galloway	40	3		12	6		34	5	
Hamilton.....	39	12		9		7	29	6	
Hammonton.....	89	53		41	24		70	60	
Linwood	0		10	2		1	6		
Mullica.....	22	7		3	2		17	6	
Pleasantville	65	19		19			26		9
Somers Point	10		4	1		6	4		2
South Atlantic City	1	1		0			2	2	
Weymouth	15	1		4		2	9	3	
	976	105	75	*11 510	47	43	815	95	39

*Marriages certificates received from County Clerks in which the places where the marriages were performed are not stated.

BERGEN COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Attendale	9	2		10	8		7		2
Bergenfield	25	5		3		1	10	3	
Bogota	10	2		2	1		3		3
Carlstadt	72		6	21	0	0	40	5	
Cliffside Park	28	5		4	3		17	6	
Cresskill	13	7		1		1	3		2
Delford	18	3		7	4		10	0	0
Dumont	15	2		3	0	0	4		2
East Rutherford	56	7		12		6	49	15	
Edgewater	31	26		1		5	15	2	
Englewood City	114	24		65	10		107	2	
Englewood Cliffs	4			1	1		2	0	0
Etna	12	12		1	1		5	5	
Fairview	45	10		0	0	0	14		3
Franklin	6	24		5		3	14		6
Garfield	111	31		38	12		94	52	
Glen Rock	15	6		1		1	8		1
Hackensack City	210	2		103	7		176		83
Harrington	47	7		11		9	33		6
Hasbrouck Heights	17		3	4		4	12		4
Hillsdale	13		3	6	4		9		1
Hohokus	38		3	14		1	45		12
Leonia	13	3		5	4		12		3
Little Ferry	43	6		0		5	17		1
Lodi Borough	75	21		9		12	45	11	
Lodi Township	21	4		4	4		5		2
Maywood	15	0	0	1	0	0	5	0	0
Midland	22		1	5	4		40		4
Midland Park	34	1		15	3		16		14
Montvale	6		2	1	0	0	4		2
North Arlington	1	1		0	0	0	5	4	
Oakland	12	7		8	7		4	2	
Old Tappan	4	2		1		1	5	3	
Orvil	8		2	8	4		10		7
Overpeck	54		4	7	1		34	6	
Palisade	20		3	4	1		12		4
Palisade Park	18		3	1	0	0	10	3	
Park Ridge	17	2		7		2	11	1	
Ridgefield Borough	8	1		3		1	12	10	
Ridgefield Township	51	22		18		3	52		2
Ridgewood	72	10		27		1	46	9	
Riverside	16	11		5	2		7		1
Rutherford	65	0	0	22		7	29		32
Saddle River Borough	5	2		3		3	7	1	
Saddle River Township	38	12		7	2		22		13
Teaneck	6		1	2	2		11	2	
Teanaflly	31		1	10	5		20		4
Union	15		1	2		1	22		8
Upper Saddle Borough	0			2	2		2		1
Wallington	3	1		0		2	1	1	
Washington	8		12	1		3	10		2
Westwood	16		8	5	3		14	3	
Woodcliffe	5		7	0	0	0	2		8
Wood Ridge	9		3	0		2	12	8	
	1,620	281	63	*4 500	95	74	1,181	154	233

*Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

BURLINGTON COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Bass River	19	9		8	8		6	6	
Beverly City	28	5		17		8	44	21	
Beverly Township	19		8	14		2	27	3	
Bordentown City	51		27	50	20		77	6	
Bordentown Township	4	1		0		9	2	1	
Burlington City	81	41		95	9		166	11	
Burlington Township	1	1		0	0	0	6		7
Chester	86	4		44		10	56	5	
Chesterfield	15		2	9	0	0	9	0	0
Cinnaminson	17		5	4		1	16	5	
Delran	27		1	5		6	11		5
Eastampton	5		4	0		1	6		1
Evesham	20		6	7		4	19		
Fieldsboro	18	13		1		8	8		3
Florence	48		2	9		4	33	9	
Lumberton	14	3		0		5	17	8	
Mansfield	7		5	7	2		14	3	
Medford	38	5		23	13		34	7	
Mount Laurel	38		1	7	4		34	15	
New Hanover	19		5	9		15	16		7
Northampton	105	31		66		3	114	7	
Palmyra	53		5	24		1	41	14	
Pemberton Borough	10		2	21	3		11		1
Pemberton Township	12	5		4		3	56	12	
Riverside	83	1		17		2	40	10	
Riverton Borough	29	11		5		4	10		6
Shamong	1	1		0	0	0	6		3
Southampton	8		22	6	0	0	16		1
Springfield	6		4	0	0	0	12		2
Tabernacle	4	1		1		3	1		1
Washington	5		5	4	3		8	1	
Westhampton	6		1	1		1	9		1
Willingboro	4		2	1		1	9	3	
Woodland	9		2	3	1		2		6
	880	132	109	462	63	91	936	154	44

CAMDEN COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Camden City	1,447	212		1,771	119		1,281		87
Centre	36	1		6	1		49	8	
Chesilhurst	9	6		2	1		1		2
Clementon	29	29		13	13		15	15	
Collingswood	29	1		29	15		30		3
Delaware	14	2		0		1	22	3	
Gloucester City	143		1	88	27		129		20
Gloucester Township	44		30	19		7	86	2	
Haddon	44	12		16	5	1	25	0	0
Haddonfield	36	9		29	5		39	4	
Merchantville	20	7		28	7		31	6	
Pensauken	28	13		9	4		38		1
Voorhees	12	0	0	4		17	14	1	
Waterford	50	4		15		4	35	2	
Winslow	35	9		0		5	38	17	
Wood Lynne Borough	4	3		2		3	3	3	
	1,978	308	31	*6 2,037	197	37	1,836	61	113

*Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

CAPE MAY COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Anglesea Borough	2	1		2	0	0	0	0	0
Avalon	0	0	0	0	0	0	0	0	0
Cape May City	34		5	31	11		37		10
Cape May Point	0		2	0	0	0	2	0	0
Dennis	23		65	5		14	12		29
Holly Beach Borough	15	4		6	5		11		12
Lower	22	2		12	4		19	7	
Middle	32		10	19		6	34	3	
Ocean City	45	8		23	8		25	3	
Sea Isle City	7	5		0		3	0		5
Upper	13		5	14	3		13		10
West Cape May	7		8	1	0	0	8	1	
Wildwood	6		1	1		7	5	3	
Woodbine	50	50		1	1		11	11	
	256	70	96	*1 116	32	30	177	28	59

*Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

CUMBERLAND COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Bridgeton	210		3	114		12	202	7	
Commercial	45	8		13		3	32	6	
Deerfield	26		41	14	3		28	14	
Downe	30	17		8	1		17		4
Fairfield	18		4	6		1	19	3	
Greenwich	35	19		7		4	20	2	
Hopewell	28	9		7	1		42	0	0
Landis	71	5		11		2	68		7
Lawrence	20		13	9		1	17		4
Maurice River	34		2	13	5		15		7
Millville City	294	13		144	27		152		2
Stow Creek	10		10	2		7	10		3
Vineland	105		10	96	9		84	12	
	926	71	83	444	46	30	706	44	46

ESSEX COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Belleville	106	16		45		6	101	5	
Bloomfield City	182	8		65		6	119		20
Caldwell Borough	21		2	10		2	20		3
Caldwell Township	15		7	6	5		13	0	0
Clinton	4	3		2	1		0		3
East Orange City	391	39		168		12	233		18
Essex Fells				1	1		2		
Glen Ridge	19		4	5		5	25	9	
Irvington	108	10		54	30		82		6
Livingston	21	6		4	0	0	20	4	
Millburn	61		1	5		3	38	3	
Montclair City	337	10		68		13	271	56	
Newark City	6,092		44	3,093	386		4,901	70	
North Caldwell Borough	1		1	0	0	0	0		6
Nutley Borough	65	16		24	5		40	9	
Orange City	691	55		210	37		525	25	
South Orange Borough	69		18	43	12		58	1	
South Orange Township	29	0	0	14	5		18		6
Vailsburg	66	1		11		5	36		2
Verona	22	13		4	1		34		9
West Orange City	123	7		24	7		79	4	
	8,423	184	77	3,856	490	52	6,615	197	73

GLOUCESTER COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Clayton	54	7		28	7		24		15
Deptford	26	1		8	1		19	2	
East Greenwich	25	9		5		10	27	3	
Elk	12	3		0		1	3		8
Franklin	50	13		11	2		23		2
Glassboro	57		5	25		2	29		1
Greenwich	47	9		9	1		24		6
Harrison	13		2	11	4		16		11
Logan	16		17	4		7	17		7
Mantua	30			17		2	26		2
Monroe	25	2		20		2	44	13	
South Harrison	5	5		4		1	5	5	
Swedesboro	34	18		15	3		13	8	
Washington	15	6		2		2	9		5
Wenonah	5	3		0		5	3	2	
West Deptford	33		2	14		4	28	8	
Woodbury	50		6	38		3	64		
Woolwich	25		6	1		5	9		13
	522	76	38	*1	18	44	383	41	70

*Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

HUDSON COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Bayonne	1,228	140		341	30		679	99	
East Newark	28		9	18	4		44	5	
Guttenburg	121	7		17	2		62		5
Harrison	252	52		95	1		210		2
Hoboken	1,833	328		805		9	1,140		16
Jersey City	3,731		49	2,423	218		4,130	104	
Kearny	237	18		78			213	20	
North Bergen	231	29		49		3	129	90	
Secaucus	51	10		1		4	205		120
Town of Union	405	29		249	24		266	5	
Weehawken	118	37		28		3	77		
West Hoboken	612	46		305	70		312		12
West New York	152		3	38		1	65		14
	8,909	696	61	*4	349	20	7,532	323	169

*Marriage certificates received from County Clerk in which the places where the marriage were performed are not stated.

HUNTERDON COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Alexandria	16	1		5		4	19	16	
Bethlehem	21		1	9		2	32	3	
Clinton Borough	1		1	9	2		10	2	
Clinton Township	21		8	12		4	21		1
Delaware	22	17		13		5	22		2
East Amwell	16		2	4			13		1
Franklin	7			14	3		20		6
Frenchtown	11		30	11	6		17	7	
High Bridge	31	14		19	2		19		2
Holland	19	8		8		1	26	7	
Junction	10	18		5			9		6
Kingwood	23		50	7	2		19	4	
Lambertville	97	72		40		15	60		17
Lebanon	24		1	18		2	25	6	
Raritan	65	21		27	4		65	13	
Readington	28		7	11		4	39		7
Stockton	7	2		1		2	12	4	
Tewksbury	42	12		18		2	31	10	
Union	12		10	1		1	11		2
West Amwell	14	12		0		1	12		
	487	177	110	232	19	43	482	72	44

MERCER COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
East Windsor	15	8		4	3		13	6	
Ewing	16	4		8	2		19	3	
Hamilton	34	4		10		15	37		2
Hightstown	10		1	18	18		27	26	
Hopewell Borough	28	11		17	1		11		5
Hopewell Township	10	7		17	11		22		7
Lawrence	9		5	6	1		19	1	
Pennington Borough	0			6		3	14	2	
Princeton Borough	74		11	23	7		66	4	
Princeton Township	11	3		3	3		11		
Trenton	923		7	780	127		1,405		
Washington	7		6	3		1	8		
West Windsor	14	2		2		5	10		
	1,151	39	30	*5 890	173	24	1,662	42	14

*Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

MIDDLESEX COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Cranbury	19		6	13		5	19	1	
Dunellen	32	25		22	11		28	13	
East Brunswick	11		5	10	5		22		
Helmetta	5	1		1		3	1		1
Jamesburg	12		3	26	4		3		1
Madison	10		9	5	1		10		8
Metuchen	34	18		22		1	30	9	
Milltown	33	15		9	1		20		1
Monroe	19		9	1		3	15	14	
New Brunswick	444	106		198		15	397		4
North Brunswick	7	3		3		13	9		1
Perth Amboy	380	1		319	37		256		44
Piscataway	42	4		15	7		54	7	
Raritan	15		10	8		2	45	4	
Sayreville	116		1	26	5		46	3	
South Amboy	103		36	36		21	110		20
South Amboy Township	0			0			0		
South Brunswick	34	9		12	10		31	7	
South River	89	2		53	32		29		18
Woodbridge	133		30	26		2	118	13	
	1,538	184	109	805	113	70	1,243	71	98

MONMOUTH COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Allenhurst	1		3	4	4		6		4
Allentown	8	3		3			7		
Asbury Park	36		5	58		1	53	2	
Atlantic	13	4		4			15	3	
Atlantic Highlands	15		13	14		5	18	5	
Avon	3	2		4	4		1	1	
Belmar	22	4		21		1	11		11
Bradley Beach Borough	11		1	5		4	8		2
Deal	2	2		0			1	1	
Eatontown	50	6		25	4		33		10
Englishtown	2		2	3		3	4		1
Farmingdale				1					
Freehold	75	5		46		7	89	11	
Highlands	4		4	4		2	16	6	
Holmdel	19	8		7	1		18		1
Howell	35	17		31		2	44	4	
Long Branch	138	3		80		29	198		6
Manalapan	10	5		5		3	16		5
Manasquan	30	9		9		6	31	14	
Marlboro	15	4		4		4	29	15	
Matawan Borough	32	1		27	17		22	8	
Matawan Township	6		12	5	2		9		2
Middletown	66		7	23	1		78	6	
Millstone	9	3		10	9		28	14	
Neptune Township	128		9	51		18	139		21
Neptune City Borough	1		4	0			7	2	
North Spring Lake	0		1	0		2	0		2
Ocean	21		2	11	6		18		20
Raritan	96	1		28		10	70		2
Red Bank City	86	18		67	35		72	1	
Sea Bright	2	1		2	1		1	1	
Shrewsbury	59		1	24		2	70		32
Spring Lake Borough	13	9		0		3	11	3	
Upper Freehold	28	4		6		3	22		4
Wall	52	7		16			29		7
	1,088	116	64	*4 605	84	105	1,174	97	110

*Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

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REPORT OF THE BOARD OF HEALTH.
MORRIS COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Boonton City	53		3	39	1		46		5
Boonton Township				1			4		3
Butler	42	21		13		3			
Chatham Borough	27		6	12	5		23		1
Chatham Township	12	2		2	2		5	3	
Chester	15		5	3		2	29		23
Dover City	134	18		69		7	90		7
Florham Bark Borough	4	2		1	1		3		1
Hanover	26		2	9		14	154		19
Jefferson	4	3		11		6	12		6
Madison	95	1		28	3		46		27
Mendham	35	6		1		10	25		1
Montville	7		3	2	1		19		2
Morris Township	17		8	0		1	32	13	
Morristown City	140	26		73		10	219	25	
Mount Arlington	5		2	0			4		2
Mount Olive	15		5	7			16	4	
Netcong	40	35		3			19	4	
Passaic	33	19		7		3	20		10
Pequannock	20		4	11	2		14		19
Randolph	17	1		7			31		5
Rockaway Borough	318	6		17		9	22		2
Rockaway Township	69	9		12	4		78	4	
Roxbury	50	22		28		9	31	9	
Washington	23		8	5		12	24	14	
Wharton Borough	27	4		10		10	49	28	
	948	175	46	371	19	96	1,127	84	133

OCEAN COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Bay Head	3	1		2			0		
Beach Haven	0		2	0			6	2	
Berkeley	9			1	1		7		4
Brick	39	20		19	13		17		5
Dover	38	7		23		7	22		12
Eagleswood	1		3	5		4	4		6
Island Heights	1			5		3	1		2
Jackson	16		2	5			14		
Lacey	51	6		4		4	12	4	
Lakewood	71	25		41	14		57		11
Lavalette	0			0			2	2	
Little Egg Harbor	5			0			9	7	
Long Beach	0		2	0			1	1	
Manchester	0		16	4		1	5		8
Ocean	9	3		3	1		3		4
Plumstead	23	3		7	1		16	2	
Point Pleasant Beach	4		22	8			1		
Sea Side Park Borough			1	1					11
Stafford	11		4	8		1	7		6
Tuckerton	19		6	12		1	13		9
Union	7		10	3		3	5		10
	271	65	67	*1 152	30	24	202	18	88

*Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

PASSAIC COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Acquackanonk	74	9	.....	31	22	.....	72	22	.....
Hawthorne	35	18	.....	5	1	.....	8	.....	17
Little Falls	55	.....	2	9	.....	5	37	.....	9
Manchester	46	.....	10	10	.....	3	30	.....	6
North Haledon	1	.....	7	3	2	.....	5	2	.....
Passaic City	1,215	.....	56	772	48	.....	650	87	.....
Paterson	2,093	373	.....	1,172	195	.....	1,730	.....	43
Pompton	15	.....	18	25	.....	3	34	1	.....
Pompton Lake Borough. ..	16	6	.....	2	5	.....	14	4	.....
Prospect Park Borough. ..	12	5	.....	2	.....	.....	17	.....	2
Totowa	4	3	.....	0	.....	.....	4	.....	2
Wayne	24	2	.....	11	1	.....	22	9	.....
West Milford	30	4	.....	19	.....	.....	32	.....	9
	3,620	420	93	2,062	274	11	2,655	125	88

SALEM COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Alloway	25	4	.....	11	4	.....	17	.....	6
Elmer Borough	29	9	.....	15	4	.....	23	10	.....
Elsinboro.	4	.....	.....	0	.....	.....	11	4	.....
Lower Alloways Creek	21	19	.....	6	.....	3	19	3	.....
Lower Penns Neck.	19	.....	3	9	.....	2	14	.....	7
Mannington	22	.....	2	3	2	.....	34	9	.....
Oldmans	25	3	.....	6	.....	3	22	7	.....
Penns Grove Borough	34	.....	9	19	.....	5	20	.....	5
Pilesgrove	26	.....	.....	15	.....	.....	29	5	.....
Pittsgrove	46	20	.....	5	.....	1	17	.....	1
Quinton	30	2	.....	11	6	.....	14	.....	6
Salem City	94	.....	13	66	.....	2	100	7	.....
Upper Penns Neck.	16	3	.....	1	1	.....	2	.....	2
Upper Pittsgrove	29	18	.....	9	6	.....	19	3	.....
Woodstown	14	.....	1	11	8	.....	23	22	.....
	434	78	28	187	31	16	364	70	27

SOMERSET COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Bedminster	37		4	9		7	20		2
Bernards	28		2	24	7		39	2	9
Bound Brook Borough	54		13	34		1	35		3
Branchburg	21	12		2	2		10	13	
Bridgewater	25	9		5	2		29		8
Franklin	36	1		12			49	5	
Hillsborough	24		4	6	6		30		
Millstone	0			0			0		2
Montgomery	8	3		5		8	10		
North Plainfield City	105	14		46	24		72	6	
North Plainfield Township	7			2	2		12		4
Raritan	20	2		21		10	30		20
Rocky Hill	15	5		3	1		8	5	
Somerville	73		15	42	16		67		9
Warren	15	4		1		1	16		
	468	50	38	222	60	27	427	31	57

SUSSEX COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Andover	9		2	5	1		9		12
Branchville	7	4		3		2	11	1	
Brooklyn	0			7	7		0		
Byram	24	11		18	6		8		11
Frankford	3		4	3		2	15		
Green	10	7		7	3		1		6
Hampton	10	5		11	7		5	3	
Hardyston	27	5		11		9	39	6	
Hopatcong	1	1		1	1		3	2	
Lafayette	8	1		10	4		13	7	
Montague	3		5	4		4	5	5	
Newton	73	1		46	15		34		4
Sandyston	9			1		1	3		11
Sparta	26	2		9		4	17		11
Stillwater	17		7	11		15	19	10	
Sussex Borough	4		11	24	3		13	6	
Vernon	9		7	6		15	14	1	
Walpack	3		6	4		1	3	1	
Wantare	3		2	8	3		19	7	
	243	37	44	189	50	53	280	49	45

UNION COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Clark	4	3		0		1	2		1
Cranford	45		4	19		3	36		3
Elizabeth	1,004	114		462	49		934	98	
Fanwood Borough	4		4	1	1		1		2
Fanwood Township	1		16	15	1		20		3
Garwood Borough	5								
Linden Borough	1		2	2		3	5	3	
Linden Township	10	6		1			9		7
Mountainside	1			1	1		1		
New Providence Borough ..	11	3		2			5		1
New Providence Twp	7	1		2			14	1	
Plainfield	366	43		125		8	263	7	
Rahway	91	37		65		3	123		16
Roselle Borough	25	18		6		1	16		2
Roselle Park	38	5		8	2		19	2	
Springfield	22	1		12	6		13	3	
Summit City	125		3	28		1	83	16	
Union	21	8		5			27	6	
Westfield|.|.|. .....	87	27		35		13	67	4	
	1,868	266	29	789	60	38	1,638	140	35

WARREN COUNTY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Allamuchy	12	10		1			9	8	
Belvidere	17			19		2	30	11	
Blairstown	12	3		16	3		18		1
Franklin	14	1		6			22	8	
Frelinghuysen	2		1	3			8		
Greenwich	10			6		5	15		3
Hackettstown	40	19		27	15		46	5	
Hardwick	8	5		0		1	6	1	
Harmony	17		10	10	2		15		
Hope	14	4		8		3	15		
Independence	8		3	5	7		6		2
Knowlton	16	6		12			11		2
Lopatcong	16		3	0			11		3
Mansfield	4		5	8			22		2
Oxford	64	19		28	4		47		4
Pahaquarry	2		1	0		1	0		3
Phillipsburg	176	47		202	50		161	4	
Pohatcong	64	32		26	9		36		14
Washington Borough	67	19		32		12	46	4	
Washington Township	13			5		4	11		4
	576	165	23	*5 419	90	28	535	41	38

*Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

SUMMARY.

NAME OF PLACE.	BIRTHS.			MARRIAGES.			DEATHS.		
	Number in 1903.	Variation. from 1902.		Number in 1903.	Variation from 1902.		Number in 1903.	Variation from 1902.	
		Increase.	Decrease.		Increase.	Decrease.		Increase.	Decrease.
Atlantic County	976	38		510	17		815	56	
Bergen County	1,620	170		500	25		1,181		9
Burlington County	880	23		462		28	936	111	
Camden County	1,978	275		2,037	178		1,836		52
Cape May County	256		28	116	4		177		31
Cumberland County	926		30	444	16		706		2
Essex County	8,423	107		3,856	435		6,615	126	
Gloucester County	522	18		213		34	383		11
Hudson County	8,999	542		4,451	316		7,532	154	
Hunterdon County	487	45		232		24	482	19	
Mercer County	1,151		5	890	141		1,662	96	
Middlesex County	1,538	77		805	62		1,243		39
Monmouth County	1,088	16		605		15	1,174		22
Morris County	948	122		371		70	1,127	121	
Ocean County	271		2	152	7		202		70
Passaic County	3,620	327		2,062	236		2,655	37	
Salem County	434	50		187	3		364	48	
Somerset County	468	13		222	27		427		26
Sussex County	243	14		189	1		230		8
Union County	1,868	242		789	7		1,638	105	
Warren County	576	42		419	58		535	3	
	37,242	2,121	65	19,512	1,523	171	31,820	871	270

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340 REPORT OF THE BOARD OF HEALTH.

TABLE 46. -SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH
FOR THE YEAR ENDING

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SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH,
DECEMBER, 31ST, 1903.

340 REPORT OF THE BOARD OF HEALTH.

TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH
FOR THE YEAR ENDING

BUREAU OF VITAL STATISTICS.

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SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH,
DECEMBER, 31ST, 1903.

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TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH
FOR THE YEAR ENDING

SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH,
DECEMBER 31, 1904.

344 REPORT OF THE BOARD OF HEALTH.

TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH
FOR THE YEAR ENDING

SEX.	MALE.		FEMALE.		TOTAL.
	Number.	Per cent.	Number.	Per cent.	
1. Agriculture, horticulture, and stock raising	1,234	1.2	876	1.1	2,110
2. Fishing and hunting	56	.1	43	.1	99
3. Manufacturing and mechanical industries	1,234	1.2	876	1.1	2,110
4. Commerce and transportation	1,234	1.2	876	1.1	2,110
5. Professions, sciences, and arts	1,234	1.2	876	1.1	2,110
6. Domestic service	1,234	1.2	876	1.1	2,110
7. Unemployed	1,234	1.2	876	1.1	2,110
8. Not stated	1,234	1.2	876	1.1	2,110
Total	10,000	100.0	10,000	100.0	20,000

SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH,
DECEMBER 31ST, 1903.

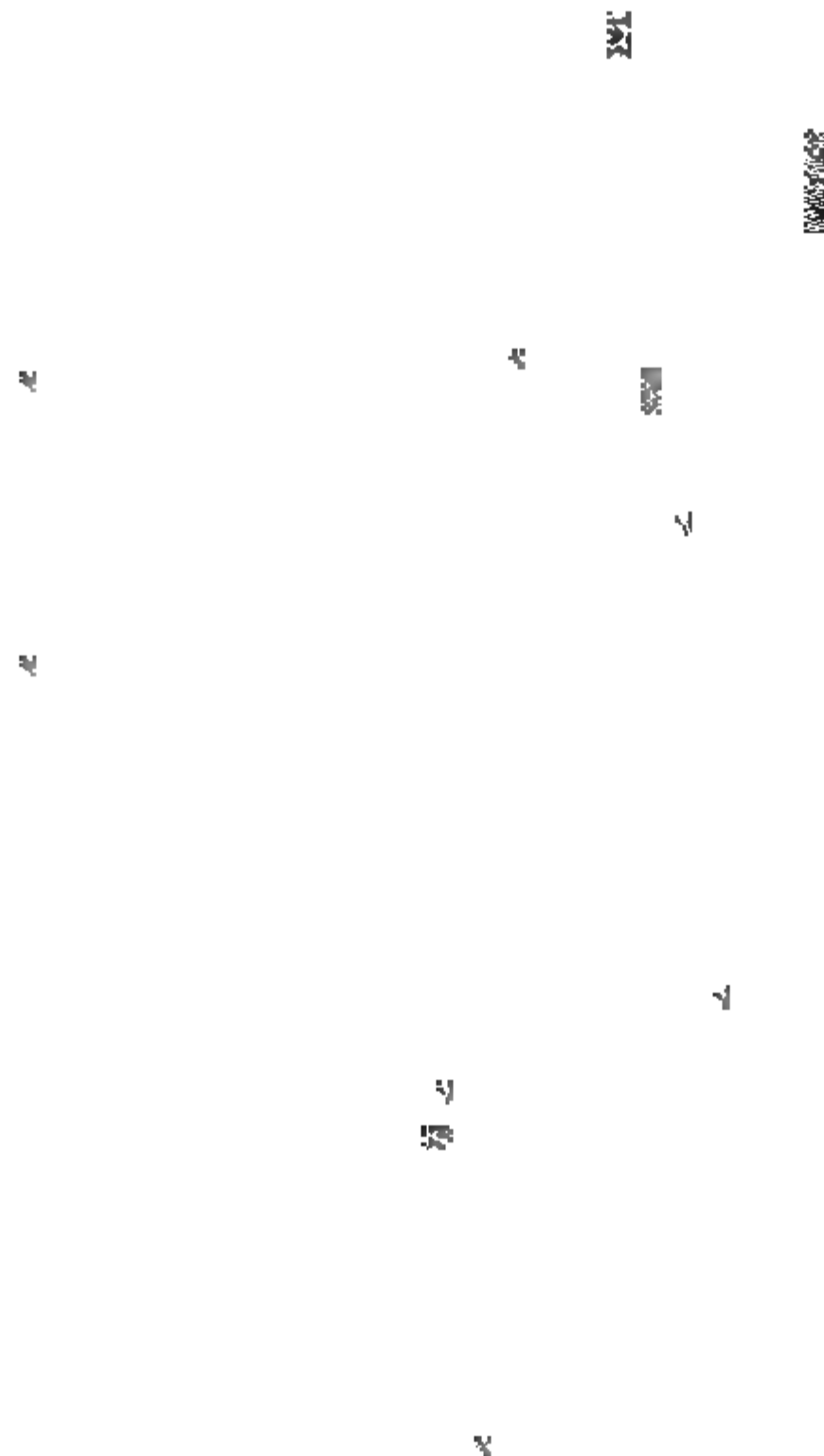


TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH
FOR THE YEAR ENDING

		Janitors and watchmen.	Jewelers. watchmakers.	Laborers.	Laundresses.	Laundrymen.	Lawyers.	Leatherworkers.	Letter carriers.	Linemen.	Locksmiths.	Machinists.	Managers and superintendents.	Manufacturers.	Masons.	Merchants.	Milkmen.	Miners.	Millers.	Musicians.
Diseases of the circulatory system.	10 to 15.			1																
	15 to 20.		1	9																
	20 to 30.	1																		
	30 to 40.		1	30		1				1		3	1	1	4	1			1	
	40 to 50.	3	3	36		1		1				3	1	1		3				
	50 to 60.	3	4	53				2				7	3	4	3	13				
	60 to 70.	6	1	49			1	3				4	1	3	4	17				
	70 to 80.	2	3	47				4	1			2		3	3	13				
	80 to 90.			8		1									1	4				
	Over 90.																			
Totals.		15	13	233	0	2	2	10	1	1	0	18	6	12	16	51	0	0	1	2
Diseases of the res- piratory system. [Consumption excepted.]	10 to 15.			2		1						1								
	15 to 20.			47								5								
	20 to 30.		1	49			1					5			1	3		2		
	30 to 40.			49			1	1	2			4		1	7	6			1	2
	40 to 50.	3		66			1	2				4	1	2		4				
	50 to 60.	5		66			1	1				5	1	1	7	9				
	60 to 70.	7	2	48			1	3				3		2	5	10		1		
	70 to 80.	2		26			1	3	1			1	2	4	1	9				
	80 to 90.	1		8							1	1	2					1		
	Over 90.			2																
Totals.		18	3	314	0	1	6	9	3	0	0	25	6	10	21	41	0	3	1	2
Diseases of the digestive system.	10 to 15.			3									1							
	15 to 20.			17								2	3							
	20 to 30.			18			2					2	2		2	3		1		
	30 to 40.			22					1			6	1	2		2				
	40 to 50.			27								3		4		5				
	50 to 60.	1	1	21				1				8			3	8				
	60 to 70.	1		20		1		1				2				5				
	70 to 80.			4																
	80 to 90.																			
	Over 90.																			
Totals.		2	1	132	0	1	2	2	2	0	0	23	5	6	7	24	0	1	0	0
Diseases of the genito-urinary sys- tem and adnexa.	10 to 15.											1								
	15 to 20.			7			2					1								
	20 to 30.											1			1					
	30 to 40.	1	1	30				1		1		6		1	2	1				
	40 to 50.	1	2	28				2				5	1	1	3	9				1
	50 to 60.	3		36			2	2	1			5	4	3	5	7				
	60 to 70.	5	2	32			1	3	1			7	1	1	5	6				
	70 to 80.	1	1	30			2	1				2			4	8		1		
	80 to 90.			6				1								2				
	Over 90.																			
Totals.		11	6	169	0	0	7	10	2	1	0	27	6	6	20	33	0	1	0	1
All others.		25	16	552	8	6	11	7	0	10	0	32	10	14	24	76	2	12	0	11

BUREAU OF VITAL STATISTICS.

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SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGE AT DEATH,
DECEMBER 31ST, 1903.

TABLE 47.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF CITIES OF OVER 5,000 INHABITANTS, FOR THE YEAR ENDING DECEMBER 31ST, 1903.

TABLE 47.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF CITIES OF OVER 5,000 INHABITANTS, FOR THE YEAR ENDING DECEMBER 31ST, 1903

[illegible]

TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR
ENDING DECEMBER 31ST, 1903.

TABLE 48.

TABLE 43.—GROWING OCCUPATIONS OF DECEASEDS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR ENDING DECEMBER 31st, 1903.—Continued

Gloucester City ..	
Hackensack ..	
Harrison ..	
Hoboken ..	
Irvington ..	
Jersey City ..	
Kearny ..	
Long Branch ..	
Millville ..	
Montclair ..	
Morristown ..	
Newark ..	
New Brunswick ..	
North Plainfield ..	
Orange ..	
Passaic City ..	
Paterson ..	
Perth Amboy ..	
Phillipsburg ..	
Plainfield ..	
Rahway ..	
Red Bank ..	

TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR
ENDING DECEMBER 31ST, 1903—Continued.

Salem City
South Amboy
Summit
Town of Union
Trenton
West Hoboken
West New York
West Orange

TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR
ENDING DECEMBER 31ST, 1905.—Continued

TABLE 49.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES BY COUNTIES, FOR THE YEAR ENDING DECEMBER 31ST, 1903.

TABLE 49.--SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES BY COUNTIES, FOR
THE YEAR ENDING DECEMBER 31ST, 1903 --Continued.

TABLE 49.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM EACH OF THE CLASSIFIED CAUSES BY COUNTIES, FOR
THE YEAR ENDING DECEMBER 31ST, 1903.—Continued

**TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

[illegible]

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[illegible]

REPORT OF THE BOARD OF HEALTH.

**TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

	1926	1927	1928	1929	1930
Asphyxia-Cyanosis.	1	1	1	1	1
Other Tumors	1	1	1	1	1
Unknown or Not Specified Diseases.	1	1	1	1	1
Totals.	3	3	3	3	3
Death Rate 15.33.					

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AGE PERIODS.		SEX.	COLOR	NATIVITY.		SOCIAL CONDITION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.
34	24	62	38	21	5	1	255
255	255	111	444	9	2	13	3
1	0	0	7	7	180	145	185
5	5	10	5	10	5	10	5

TABLE 51.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

BUREAU OF VITAL STATISTICS.

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IN THE

DIVISIONS OF THE STATE OF NEW JERSEY FOR

SEX.		COLOR.	NATIVITY.										SOCIAL CONDITION.					
Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
2	7		4	1		1	1					2		4	3	1	1	9
8	6		14									1		1	14			14
4	2		6									1		1	6			6
17	11		27									1		1	27			28
3	2		2			2				1		1		2	2	1		5
38	31	5	39	2		4	14	1		1		8		32	33	2	2	99
1	1		1												1			1
3	6		4			2	3							4	4			4
1	1		1				1							1		5		9
3	3		1	1			1					1		2		1		3
1	2		1	1			4					1		3		2		6
3	3		1			1	1					1		3	2	2	1	3
12	11		22				1	1							23	1		23
15	19		9	4		7	12					2		21	2	11		34
1	1		1											1	1			1
1	1		1											1	1			2
2	1		1												1			1
1	1		1												2			1
8	7		15											1	15			15
2	1											2		1	1			2
1	7		9			1								1	8			1
7	10		11	4		2	13					1		4	8	3		14
1	1							1						1	1	2	1	19
3	2		1				1		1					1		2	1	3
2	2		1									1		1	1			2
2	2		4											1	1			2
4	1		3			1								1	3			4
1	1		1											1	1			1
14	20	1	32	1								1		1	32			34
45	25	2	32			6	18	2			1	5	2	26	30	8	2	66
2	2		2			1			1					1	2	1		4
3	1		4											1	4			4
1	1		1											1		1		2
1	1		3								1	2		3	3			6
1	3		3				1							2	4			1
34	27	3	61	2											59	1	1	61
3	4	1	2			1	3					1		3	4			7
3	5		1			1	1					1		1	8	1		10
1	1		1											1	1			1
1	1		1											1	1			1
1	3		3											10	1			11
1	2		1			2						4		1	1			11
3	2	1	3			1						2		2	2	1		12

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 52.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.					
		10-14	15-19	20-24	25-29	30-34	35-39
" of the Female Genital Organs...	D ...						1
Diabetes.							1
Alcoholism (Acute or Chronic).							1
Simple Meningitis							1
Cerebral Hemorrhage and Congestion.							1
General Paralysis.							1
Convulsions of Infants							1
Pericarditis.							1
Organic Diseases of the Heart..							1
Diseases of Arteries. Atheroma, Aneurism, etc							1
Other Diseases of the Circulatory System.....							1
Diseases of the Larynx and Thyroid Body..	1						1
Acute Bronchitis.....							1
Chronic Bronchitis							1
Broncho-Pneumonia							1
Pneumonia.....							1
Pleurisy							1
Other Diseases of Respiratory System.	77						1
Other Diseases of Stomach (Cancer Excepted)							1
Dysentery..							1
Hernia and Intestinal Obstructions..							1
Other Diseases of the Liver.....							1
Inflammatory Peritonitis (Non-Puerperal)...							1
Bright's Disease							1
Accidents of Pregnancy	118 1						1
Potts' Disease	130						1
Congenital Debility Icterus and Sclerema..	138 4						1
Senile Debility	141						1
Suicide or Attempt at Suicide by Poison	142 A						1
Other Accidental Injuries..	145						1
Sunstroke and Freezing..	147						1
Accidental Drowning	148						1
Unknown or Not Specified Diseases	161						1
Totals.		1	0	4	5	6	8

Death rate 11.31.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

REPORT OF THE BOARD OF HEALTH.

TABLE 53.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

Death rate 18.73.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 54.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 54.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.

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100
100
100

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**IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.**

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TABLE 55.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

Death rate 22.46.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

**TABLE 56.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

DEATHS IN CAMDEN CITY.		AGE PERIODS.											
		Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Forty to forty-five.	Forty-five to fifty.		
Typhoid Fever.....	1												
Smallpox.....	4		2								1		
Scarlet Fever.....	6		3								1		
Whooping Cough....	7	6	4										
Diphtheria and Croup....	8		7										
Influenza.....	9		1										
Pyæmia and Septicæmia....	14		1					1		2	1		
Tuberculosis.....	22		A	1	1			26	19	14	18	8	10
Of the Lungs.....			B	1				1					
Of the Meninges.....			C										
Of Other Organs....			D										
General.....	E		1										
Syphilis.....	24												
Cancer.....	25		B								1	3	
Of the Stomach and Liver.....			C										
Of the Intestines and Rectum....			D					1		1	2	3	
Of the Female Genital Organs....			E										
Of the Breast.....			F		1			1					
Of the Skin....			G		1			1	1	1		2	
Others.....													
Rheumatism.....	26				1						1		
Diabetes.....	28												
Anæmia Chlorosis.....	32												
Alcoholism (Acute or Chronic)....	34		1						1		2		
Other Chronic Poisonings.....	37								1				
Encephalitis.....	38												
Simple Meningitis.....	39	14	10	8				1		1			
Progressive Muscular Atrophy.....	41	1											
Cerebral Hemorrhage and Congestion..	42	4	6						2		5		
Softening of the Brain.....	43										5		
Paralysis Without Indicated Cause....	44		2	1							1		
General Paralysis.....	45										1		
Other Forms of Insanity.....	46								1		1		
Non-Puerperal Eclampsia.....	48												
Convulsions of Infants.....	49	17	9										
Tetanus.....	50	7			1								
Other Disorders of the Nervous System....	52										1		
Pericarditis.....	55										1		
Endocarditis.....	56			1		1		1			1		
Organic Diseases of the Heart.....	57	7	5	1	1	1	2	2	1	8	4		
Angina Pectoris.....	58										6		
Diseases of Arteries, Atheroma, Aneurism, etc. .	59												
Embolism.....	60			1			1	1	1				
Hemorrhage.....	65	1		1	1		1						
Other Diseases of the Circulatory System..	66												
Acute Bronchitis.....	69	4	1										
Chronic Bronchitis.....	70												
Broncho-Pneumonia.....	71									2			
Pneumonia.....	72	2	19	21	4	2	3	3	1	5	7		
Pleurisy.....	73										4		
Congestion and Apoplexy of Lungs... .	74	7	4	1							1		
Asthma.....	76												
Other Diseases of the Respiratory System ..	77	1				1	1	1		1	1		
Diseases of the Esophagus.....	79										1		
Ulcer of Stomach.....	80												
Other Diseases of Stomach (Cancer Excepted) ..	81	1	5	2							1		
Infantile Diarrhœa, Athrepsia.....	82	3	48	8	2	2					2		
Diarrhœa and Enteritis.....	83	1	1	1									
Dysentery.....	84												

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 56.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.	
	Under 15.	15 and over.
Accidental Drowning .	2	1
Other Accidental Poisoning	1	1
Other External Violence	1	1
Exhaustion-Cachexia	1	1
Inflammatory Fever	1	1
Dropsy	1	1
Asphyxia-Cyanosis	1	1
Other Tumors	1	1
Unknown or Not Specified Diseases	1	1
Totals	38	23
Death-rate 16.05.		

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 57.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 58.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.			
	Under 5 years.	5 to 14 years.	15 to 64 years.	65 years and over.
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99				
Totals				
Death-rate 9.72.				

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 52.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.				
		Under 5	5 to 14	15 to 24	25 to 44	45 to 64
DEATHS IN ELIZABETH.						
		Forty-five to fifty.				
Typhoid Fever				3	1	1
Measles						
Scarlet Fever						
Whooping Cough						
Diphtheria and Croup						
Influenza						
Pvæmia and Septicæmia						
Tuberculosis of the Lungs				15	8	11
Of the Meninges	22					
Of Other Organs						
Of the Stomach and Liver					1	
Of the Intestines and Rectum					2	1
Of the Female Genital Organs	25					
Of the Breast						
Of the Skin						
Others						
Rheumatism						
Diabetes						
Anæmia Chlorosis						
Alcoholism (Acute or Chronic)						
Encephalitis						
Simple Meningitis						
Cerebral Hemorrhage and Congestion						
Softening of the Brain						
Paralysis Without Indicated Cause						
General Paralysis						
Other Forms of Insanity						
Epilepsy						
Convulsions of Infants						
Others						
Endocarditis						
Organic Diseases of the Heart						
Diseases of Arteries, Atheroma, Aneurism, etc						
Embolism						
Other Diseases of the Circulatory System						
Diseases of the Larynx						
Acute Bronchitis						
Chronic Bronchitis						
Broncho-Pneumonia						
Pneumonia						
Pleurisy						
Congestion and Apoplex						
Gangrene of Lungs						
Asthma						
Pulmonary Emphysema						
Other Diseases of the						
Ulcer of Stomach						
Other Diseases of Stom						
Infantile Diarrhœa, Ath						
Diarrhœa and Enteritis						
Dysentery						
Hernia and Intestinal						
Other Diseases of the I						
Diseases of Anus Fecal						
Cirrhosis of the Liver						

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

NAT SOCIAL
CONDITION.

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TABLE 59.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.	
	Under 15 years.	15 years and over.
Smallpox	1	1
Scarlet fever	1	1
Diphtheria	1	1
Whooping cough	1	1
Measles	1	1
Polio	1	1
Typhoid fever	1	1
Typhus	1	1
Cholera	1	1
Disentery	1	1
Consumption	1	1
Phthisis	1	1
Emphysema	1	1
Heart disease	1	1
Stroke	1	1
Apoplexy	1	1
Paralysis	1	1
Epilepsy	1	1
Convulsions	1	1
Coma	1	1
Delirium	1	1
Insanity	1	1
Alcoholism	1	1
Drugs	1	1
Accidents	1	1
Violence	1	1
Unnatural causes	1	1
Total	1	1

Death-rate 16.55.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

	Y.	SOCIAL CONDITION.
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TABLE 60.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
FOR YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903

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8.25.1.2 **REVISIONS** (continued)

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 63.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES

Death-rate 18.63.

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DECEMBER 31ST, 1903.

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TABLE 64.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.	
SEX.	RACE.	Under 10 years.	10 years and over.
		Male.	Female.
White.	Male.	1	2
	Female.	3	4
Colored.	Male.	5	6
	Female.	7	8
Total.	Male.	9	10
	Female.	11	12

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 64.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 65.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.	
DISEASES.	SEX.	MALES.	FEMALES.
		MALES.	FEMALES.
TYPHOID FEVER.	MALES.	1	1
	FEMALES.	1	1
DYSENTERY.	MALES.	1	1
	FEMALES.	1	1
CHOLERA.	MALES.	1	1
	FEMALES.	1	1
MALARIA.	MALES.	1	1
	FEMALES.	1	1
TYPHOUS FEVER.	MALES.	1	1
	FEMALES.	1	1
DIPHTHERIA.	MALES.	1	1
	FEMALES.	1	1
SCARLET FEVER.	MALES.	1	1
	FEMALES.	1	1
MEASLES.	MALES.	1	1
	FEMALES.	1	1
CROUP.	MALES.	1	1
	FEMALES.	1	1
PNEUMONIA.	MALES.	1	1
	FEMALES.	1	1
BRONCHITIS.	MALES.	1	1
	FEMALES.	1	1
ASTHMA.	MALES.	1	1
	FEMALES.	1	1
EMPHYSEMA.	MALES.	1	1
	FEMALES.	1	1
TUBERCULOSIS.	MALES.	1	1
	FEMALES.	1	1
CONSUMPTION.	MALES.	1	1
	FEMALES.	1	1
SCURVY.	MALES.	1	1
	FEMALES.	1	1
RHEUMATISM.	MALES.	1	1
	FEMALES.	1	1
GOUT.	MALES.	1	1
	FEMALES.	1	1
PARALYSIS.	MALES.	1	1
	FEMALES.	1	1
EPILEPSY.	MALES.	1	1
	FEMALES.	1	1
HYSTERICAL AFFECTIONS.	MALES.	1	1
	FEMALES.	1	1
MADNESS.	MALES.	1	1
	FEMALES.	1	1
SUICIDE.	MALES.	1	1
	FEMALES.	1	1
HOMICIDE.	MALES.	1	1
	FEMALES.	1	1
DEATH BY ACCIDENT.	MALES.	1	1
	FEMALES.	1	1
DEATH BY NATURE.	MALES.	1	1
	FEMALES.	1	1
DEATH BY DISEASE.	MALES.	1	1
	FEMALES.	1	1
DEATH BY POISON.	MALES.	1	1
	FEMALES.	1	1
DEATH BY FIRE.	MALES.	1	1
	FEMALES.	1	1
DEATH BY DROWNING.	MALES.	1	1
	FEMALES.	1	1
DEATH BY OTHER CAUSES.	MALES.	1	1
	FEMALES.	1	1
TOTAL.	MALES.	1	1
	FEMALES.	1	1

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 66.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.		to seventy.
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		6
		41
		4
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

AGE PERIODS.	SEX
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	11
11	12
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94	95
95	96
96	97
97	98
98	99
99	100

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TABLE 86.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

DEATHS.	AGE PERIODS.	
	Under 10 years.	10 years and over.
Chronic		
Bronchitis	2	
Pneumonia		
Pleurisy		
Congestive		
Asthma		
Other		
tuberculous		
Diseases		
Ulcers		
Other		
(Cancer)		1
Infantile		
Diarrhea		
Dysentery		
Hernia		
Other		
Acute		
Yaws		
Cirrhosis		
Other		
Influenza		
(Non-specific)		
Appendicitis		
Acute		
Bright's		
Other		
and		
Diseases		
Diseases		
Stricture		
Diseases		
Metritis		
Uterine		
Other		
Ovarian		
Ovarian		
Acidosis		
Puerperal		
Other		
Puerperal		
Puerperal		
Puerperal		
Eclampsia		
Erysipelas		
Gangrene		
Plegm		
Diseases		
Pott's		
Cold		
Other		
Malformation		
Congenital		
and		
Want of		
(Fishes)		

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 66.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES,
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 67.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.	
		18-24	25-34
1900	Male	100	100
	Female	100	100
1910	Male	100	100
	Female	100	100
1920	Male	100	100
	Female	100	100
1930	Male	100	100
	Female	100	100
1940	Male	100	100
	Female	100	100
1950	Male	100	100
	Female	100	100
1960	Male	100	100
	Female	100	100
1970	Male	100	100
	Female	100	100
1980	Male	100	100
	Female	100	100
1990	Male	100	100
	Female	100	100

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 67.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISION OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 68.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES

DEATHS IN LONG BRANCH.			Under one month.	Under one year.	One to five	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	
Typhoid Fever.....		1								1	1		2		
Scarlet Fever.....		6				1									
Whooping Cough.....		7		2											
Diphtheria and Croup.....		6				1									
Pymæia and Septicæmia.....		14								1					
Intermittent Fever.....		19													
Tuber- culosis	} Of the Lungs... Of the Meninges... Of the Peritonium... Of Other Organs...	A		2				2	2	1	3	6	1	1	
		B		1			1								
		C													
		E								1					
Liver.....	} 25	B												1	
Pneumonia.....		D													
		28			1										
		28					1								
		32			1										
		34										1	1		
		39	1	1				2		1		1	1		
		42													
		44											1		
		45													
		49		1											
		50					2				1				
		56									1		1		
		57			1			1			1	3	1	1	
		59													
		70													
		71		2		1									
		72	1	2	2	1				1					
		73													
		76			1										
		77													
		81													
		82	2	5	2									1	
		83													
		90							1						
		91											1		
		92	1												
		93					1	1		1	4	1			
		95										1			
		96													
		97									3	3		1	
		109													
		111											1		
		116							1						
		126													
		137	1	1											
		138	3	4	1										
		139	1												
		140	1												
		141													
		142									1		1		
		A													
		O													
		143											1		
		146				1									
		145							1			1			
		152						1							
		153													
		159				1									
		161		1			1					1			
Totals			11	22	9	6	6	5	7	10	16	18	12	5	
Death rate 20.21.															

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 69.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES

DEATHS IN MILLVILLE		Under one month.	Under one year	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
	14			2	1	1	1						
}	22 A						1	3	1	1			
	B												
	C												
	D												
	F												
	28											1	
	34											1	
	38		1	1									
	40												
	42		1	1									
	44												
	45					1							
	47												
	49	2	2										
	50												
	52 C		1				1						
	54			1									
	56					1		1					
	57		1										
etc.	59		1									1	
	66	1										1	
	68			1	1								
	69		1										
	70												
	71		1										
	72		1	2							2		
	74												
	76			1									
	77 B			1									
	81								1		1		
	82	1	4	1				1					
	83								1				
	84											1	
	87 A												
	90												
	92			1									
	93				1				1				
	97												
	113												
	116	1											
	119 A						1				1		
	137	1											
	138	6	6										
	140		1										
	141												
	143												
	147			1				1					
	148			1		1	1						
	156	1											
	161	1											
Totals.		14	21	14	5	4	5	6	5	2	4	6	1
Death rate 14.13.													

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 70.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.	
	Under 15 years.	15 years and over.
Smallpox	2	2
Scarlet fever	2	2
Diphtheria	2	2
Whooping cough	2	2
Measles	2	2
Polio	2	2
Typhoid fever	2	2
Typhus	2	2
Cholera	2	2
Disentery	2	2
Consumption	2	2
Phthisis	2	2
Emphysema	2	2
Heart disease	2	2
Stroke	2	2
Apoplexy	2	2
Paralysis	2	2
Epilepsy	2	2
Mania	2	2
Melancholia	2	2
Alcoholism	2	2
Drugs	2	2
Accidents	2	2
Violence	2	2
Unnatural causes	2	2
Total	50	50

Death rate 17.42.

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

422 REPORT OF THE BOARD OF HEALTH

TABLE 71.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
~~MAE~~

THE

DEATHS IN MORRISTOWN.

Typhoid Fever	1	
Whooping Cough	2	
Diphtheria and Croup	8	
Pyæmia and Septicæmia	14	
2 ½ Of the Lungs		A
	23	B
		E
		F
	25	B
		C
		G
		28
		32
		39
Ingestion		42
Cause		44
		49
Pericarditis		55
Endocarditis		56
Organic Diseases of the Heart		57
Angina Pectoris		58
Diseases of Aneurism, etc.		59
Phlebitis and the Veins		62
Hæmorrhage		65
Other Diseases of the Circulatory System		66
Diseases of the Nasal Fossæ		67
Diseases of the Larynx and Thyroid Body		68
Acute Bronchitis		69
		71
		72
		73
		74
	77	A
		80
		82
		83
		84
		86
	87	A
		90
		92
(rperal)		93
		95
		96
		97
		125
		128
		137
erema		138
		140
		141
	142	I
		145
	146	A
		147
		148
		161
Totals		
Death rate 17.95.		

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

**TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

DEATHS IN NEWARK.

Typhoid Fever...			
Smallpox....			
Measles.....			
Scarlet Fever ..			
Whooping Cough...			
Diphtheria and Croup.....			
Influenza.....			
Pyæmia and Septicæmia.....			
Glanders and Farcy ..			
Intermittent Fever....			
Tuberculosis.			
Of the Lungs..			
Of the			
Meninges....			
Of the			
Peritoneum....	22		
Of Other			
Organs....			
General ..			
Scrofula....			
Syphilis.....			
Of the Mouth			
Of the Stom'h			
and Liver..			
Of the Intes's			
and Rectum ..	25		
Of Female			
Genital Org's.			
Of the Breast.			
Others...			
Cancer.			
Rheumatism...			
Diabetes.			
Addison's Disease.			
Leukæmia.			
Anæmia Chlorosis.....			
Alcoholism (Acute or Chronic).			
Encephalitis.			
Simple Meningitis.			
Progressive Locomotor Ataxia.			
Progressive Muscular Atrophy.			
Cerebral Hemorrhage and			
Congestion...			
Softening of the Brain....			
Paralysis without Indicated			
Cause...			
General Paralysis....			
Other forms of Insanity...			
Epilepsy.			
Non-Puerperal Eclampsia. . .			
Convulsions of Infants ..			
Tetanus ..			
Other Diseases of the Nervous			
System.	52		
Diseases of the Ears.			
Pericarditis . . .			
Endocarditis....			
Organic Diseases of the Heart...			
Angina Pectoris.			
Dise's of Arteries, Atheroma,			
Aneurism, etc.			

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

[illegible]

427

1	1	18	17	2	23	1	3	5	1	1	10	17	8	35
11	5	100	99	17	196	1	2	2	1	1	199	18	26	199
1	1	18	38	4	31	1	6	12	2	3	14	16	5	56
1	1	10	13		15	1	2	5			1	17	5	23
3		24	15	1	20	2	7	5	2	1	2	22	13	39
1		7	4		8		1	3			3	6	2	11
6	3	40	23	1	26		19	14	2	2	40	17	6	63
2		10	7		9	2	2	3	1		9	6	2	17
5	1	28	23	1	36	2	8	3	1	1	24	21	6	51
4	2	7	3		8	1	1				3	7		10
45	14	31	38	2	32	4	14	8	4	4	31	22	16	69
		180	128		142	26	62	53	8	4	155	58	95	308
	1		1		1							1		1
6	3	2			2						1	1		2
		13	1		10		3			1	8	1	5	14
			1		1						1			1
			1		1						1			1
			1		1						1			1
1			3	1	2		1				1	1	1	3
		2	6	1	7			1			3	5		8
			5		1		2	1		1	4	1		5
			9	1	1		1	1		1	7	2		9
			12	1	9		2	2	1		11	1		12
			7	1	10		2		2		7	7	1	15
3		3	3		2		2		1		8	2		6
1		4	1	1	5						2	1	2	5

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TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.				
		Under 10	10 to 20	20 to 30	30 to 40	40 and over
DEATHS IN NEWA						
Other Diseases of the Skin and Adnexa (Cancer Excepted)						
Pott's Disease.....						
Other Diseases of Bones.						
Other Diseases of the Joints—Arthritis ..						
Malformations.....						
Congenital Debility, Ister and Sclerema.....						
Want of Care.....						
Other Diseases Peculiar to Infancy.....						
Senile Debility.....						
Suicide	By Poison.....					
	By Asphyxia....					
	Strangulation...					
	By Firearms....					
	By Cutting....					
	Instrm'ts					
	By Drowning...					
	Others.....					
Fractures.....						
Other Accidental Injuries						
Burns by Fire.....						
Burns by Corrosive Substances.....						
Sunstroke and Freezing						
Accidental Drowning						
Inanition.....						
Inhalation of Noxious Gases (Suicide Excepted)						
Other Accidental Injuries						
Other External Violence.						
Exhaustion-Cachexia						
Fever (Gastric Disorder)						
Dropsy.....						
Asphyxia-Cyanosis						
Abdominal Tumor.....						
Other Tumors.						
Unknown or Not Specified Diseases.....						
Totals.....						
Death rate 18.47						

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

430 REPORT OF THE BOARD OF HEALTH.

TABLE 73.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.				
		Under 10	10 to 20	20 to 30	30 to 40	40 to 50
Cancer.	Of the Meninges.....	22	1			
	Of the Stomach and Liver.....					
	Of the Intestines and Rectum.....	25				
	Of the Female Genital Organs.....					
	Others.....					
Rheumatism.....						
Diabetes.....						
Exophthalmic Goitre.....						
Alcoholism (Acute or Chronic).....						
Simple Meningitis.....						
Progressive Locomotor Ataxia.....						
Cerebral Hemorrhage and Congestion.....						
Paralysis Without Indicated Cause.....						
General Paralysis.....						
Other Forms of Insanity.....						
Epilepsy.....						
Convulsions of Infants.....						
Tetanus.....						
Diseases of the Nervous System.....		52				
Pericarditis.....						
Endocarditis.....						
Organic Diseases of the Heart.....						
Diseases of Arteries, Atheroma, Aneurism, etc.....			1		1	
Other Diseases of the Circulatory System.....			1			
Acute Bronchitis.....			1			
Chronic Bronchitis.....						
Broncho-Pneumonia.....			1			
Pneumonia.....		73	5			
Pleurisy.....		73				
Congestion and Apoplexy of Lungs.....		74				
Asthma.....		76				
Pulmonary Emphysema.....		77				
Other Dis's of the Respiratory System.....		77				
Diseases of the Pharynx.....		79			1	
Other Diseases of Stomach (Cancer excepted).....		81	1			
Infantile Diarrhoea, Athrepsia.....		82	3	26	5	
Diarrhoea and Enteritis.....		83			1	
Dysentery.....		84	1			
Hernia and Intestinal Obstructions.....		86				
Other Diseases of the Intestines.....		87				
Cirrhosis of the Liver.....		90				
Other Diseases of the Liver.....		92				

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

432 REPORT OF THE BOARD OF HEALTH.

TABLE 73.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

Unknown or Not Specified Diseases.	161
Totals.	
Death-rate 19.43.	

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**IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.**

434 REPORT OF THE BOARD OF HEALTH.

TABLE 74.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 75.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.

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(IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
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438 REPORT OF THE BOARD OF HEALTH.

TABLE 75.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

440 REPORT OF THE BOARD OF HEALTH.

TABLE 76.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.

DEATHS IN PASSAIC CITY

Typhoid Fever...	1	
Measles	5	
Scarlet Fever	6	
Whooping Cough	7	
Diphtheria and Croup	8	
Influenza..	9	
Pyæmia and Septicæmia	14	
Tuber- culosis	22	Of the Lungs. A
Of the Meninges...		B
Of Other Organs.....		E
General		F
Serofula.	23	
Syphilis	24	
Cancer	25	Of the Stomach and Liver. B
Of the Intestines and Rectum...		C
Of the Skin		F
Others.		G
Rheumatism	26	
Diabetes.....	28	
Leukemia	31	
Anemia Chlorosis.	32	
Alcoholism (Acute or Chronic)	34	
Simple Meningitis.	39	
Cerebral Hemorrhage and Congestion	42	
General Paralysis	45	
Convulsions of Infants	49	
Tetanus	50	
Other Diseases of the Nervous System.	53	C
Pericarditis	55	
Endocarditis.	56	
Organic Diseases of the Heart		
Angina Pectoris.		
Diseases of Arteries, Atheroma, Aneurism, etc		
Embolism		
Varices, Varicose Ulcers, Hemorrhoids.		
Hemorrhage		
Diseases of the Larynx and Thyroid Body		
Acute Bronchitis		
Chronic Bronchitis		
Broncho-Pneumonia		
Pneumonia		
Pleurisy.	73	
Congestion and Apoplexy of Lungs.	74	
Asthma	76	
Other Diseases of the Respiratory System	77	B
Diseases of the Esophagus	79	E
Other Diseases of the Stomach (Cancer excepted)..	81	
Infantile Diarrhoea, Athrepsia	82	
Diarrhoea and Enteritis..	83	
Dysentery.....	84	
Hernia and Intestinal Obstructions.....	86	
Cirrhosis of the Liver.....	90	
Other Diseases of the Liver...	92	
Inflammatory Peritonitis (Non-Puerperal)	93	
Other Diseases of Digestive System, (Cancer and Tuberculosis excepted).....	94	
Appendicitis	95	
Acute Nephritis	96	

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

Fifty to fifty-five.

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18 18 18

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18 18

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**TABLE 76.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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446 REPORT OF THE BOARD OF HEALTH.

TABLE 77.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

448 REPORT OF THE BOARD OF HEALTH.

TABLE 78.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

DEATHS IN PERTH AMBOY.

Typhoid Fever.....	1
Measles.....	3
Scarlet Fever.....	
Diphtheria and Croup.....	
Pyæmia and Septicæmia.....	
Tuberculosis of the Lungs.....	
" of Other Organs.....	23
Cancer of the Stomach and Liver.....	
Of the Female Genital Organs.....	35
Others.....	
Alcoholism (Acute or Chronic).....	
Simple Meningitis.....	36
Cerebral Hemorrhage and Congestion.....	41
Paralysis Without Indicated Cause.....	44
General Paralysis.....	45
Convulsions of Infants.....	45
Tetanus.....	54
Endocarditis.....	54
Organic Diseases of the Heart.....	57
Diseases of Arteries, Atheroma, Aneurism, etc.....	56
Hemorrhage.....	62
Other Diseases of the Circulatory System.....	64
Diseases of the Larynx and Thyroid Body.....	66
Acute Bronchitis.....	66
Broncho-Pneumonia.....	71
Pneumonia.....	72
Pleurisy.....	72

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
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TABLE 79.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

AGE PERIODS.

NATIVITY

1903

1902

1901

1900

1903

1902

1901

1900

1903

1902

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TABLE 79.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

Death rate 13.44.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

IVITY.	SOCIAL CONDITION.
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454 REPORT OF THE BOARD OF HEALTH.

TABLE 89.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

1903

1903

1903

1903

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TABLE 80.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.
		Under 10 Years.
		10 to 20 Years.
		20 to 30 Years.
		30 to 40 Years.
		40 to 50 Years.
		50 to 60 Years.
		60 to 70 Years.
		70 to 80 Years.
		80 to 90 Years.
		90 to 100 Years.
		Total.
DEATHS IN PLAINFIELD.		
Dysentery		
Hernia and Intestinal Obstructions.		
Other Diseases of the Intestines	8	
Cirrhosis of the Liver.		
Other Diseases of the Liver		
Inflammatory Peritonitis Non-Puerperal).		
Acute Nephritis		
Bright's Disease.		
Diseases of the Bladder.		
Diseases of the Urethra Blenorrhagia, Males	10	
Abscess of the Pelvis.		
Other Diseases of the Female Genital Organs	11	
Accidents of Pregnancy		
Puerperal Septicæmia	11	
Erysipelal.		
Phlegmon. Acute Abscess.		
Congenital Debility, Icterus and Sclerema.		
Want of Care.		
Other Diseases Peculiar to Infancy.		
Senile Debility		
Suicide or Attempt (By Poison		
at Suicide. (By Strangulation	142	
Other Accidental Injuries.		
Other External Violence.		
Asphyxia-Cyanosis.		
Abdominal Tumor.....		
Other Tumors.		
Unknown or Not Specified Diseases.		
Totals,		
Death rate 15.84.		

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

458 REPORT OF THE BOARD OF HEALTH.

TABLE 81.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST 1903.

REPORT OF THE BOARD OF HEALTH.

TABLE 82.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

[illegible]

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[illegible]

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TABLE 83.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
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464 REPORT OF THE BOARD OF HEALTH.

TABLE 84.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

**TABLE 85.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

Death rate 14.28.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 86.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

[illegible]

REPORT OF THE BOARD OF HEALTH.

**TABLE 83.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING**

Death-rate 17.21.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 87.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.—Continued.

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TABLE 87.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

[illegible]

Death-rate 18 20.

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

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TABLE 88.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		AGE PERIODS.
Diphtheria and Croup	8	
Influenza		
Pyæmia and Septicæmia		
Tuber- Of the Lungs	23	
culosis Of the Meninges		
Cancer Of the Stomach and Liver	25	
Of the Intestines and Rectum		
Of the Female Genital Organs		
Of the Breast		
Others		
Diabetes		
Leukemia		
Simple Meningitis	39	
Progressive Locomotor Ataxia	40	
Cerebral Hemorrhage and Congestion	42	
Paralysis Without Indicated Cause	44	
General Paralysis	45	
Other Forms of Insanity	46	
Convulsions of Infants	49	
Other Diseases of the Nervous System	53	C
Pericarditis	55	
Endocarditis	56	
Organic Diseases of the Heart	57	
Diseases of Arteries, Atheroma, Aneurism, etc.	59	
Embolism	60	
Hemorrhage	65	
Other Diseases of the Circulatory System	66	
Diseases of the Larynx and Thyroid Body		
Acute Bronchitis		
Chronic Bronchitis		
Broncho-Pneumonia		
Pneumonia	72	
Pleurisy	73	
Congestion and Apoplexy of Lungs	74	
Asthma	76	
Other Diseases of the Respiratory System	77	B
Ulcer of Stomach	80	
Other Diseases of Stomach (Cancer Excepted)	81	
Infantile Diarrhea, Athrepsia	82	

BUREAU OF VITAL STATISTICS.

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IN THE YEAR

DIVISIONS OF THE STATE OF NEW JERSEY FOR
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TABLE 88.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

TABLE 89.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

AGE PERIODS.	
YEARS	

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

482 REPORT OF THE BOARD OF HEALTH.

TABLE 90.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	AGE PERIODS.		
	Under 15.	15 to 64.	65 and over.
Inflammatory Peritonitis (Non-Puerperal)			
Acute Nephritis	4		
Bright's Disease			
Diseases of the Bladder			
Puerperal Hemorrhage			
Puerperal Albuminuria and Eclampsia			
Congenital Debility, Icterus and Sclerema			
Senile Debility			
Suicide or Attempt at Suicide 142			
Other External Violence			
Totals			2
Death rate 10.52.			

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

REPORT OF THE BOARD OF HEALTH.

TABLE 90.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

[illegible]

Death rate 10.52.

BUREAU OF VITAL STATISTICS.

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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR
DECEMBER 31ST, 1903.

SOCIAL
CONDITION.

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